

# FIGURE 1

APPROVED	O.G. FIG.	SUBCLASS
BY	CLASS	
DRAFTSMAN		

GGACTAACTGTGGGAGCAGTTATTCCAGTATCACCCAGGGCAGGCCACACCAGGACTGT  
GTTGAAGGGTGTCCCCCTTTAAATGTAATACCTCCTCATCTTCTTACACAGTG  
TCTGAGAACATTACATTATAGATAAGTAGTACATGGTGGATAACTCTACTTTAGGAGGA  
CTACTCTCTGACAGTCTAGACTGGTCTTACACTAAAGACACCATGAAGGAGTATGTG  
CTCCTATTATTCCGGCTTGTGCTCTGCCAAACCCCTCTTAGCCCTCACACATCGCACT  
GAAGAATATGATGCTGAAGGATATGGAAGACACAGATGATGATGATGATGATGATG  
ATGATGATGATGAGGACAACACTCTTTCCAACAAGAGAGCCAAGAAGCCATTTTCCA  
TTTGATCTGTTCCAATGTGTCATTGGATGTCAGTGTCTTCACGAGTTGTACATTGCTC  
AGATTTAGGTTGACCTCAGTCCAACCAACATTCCATTGATACTCGAATGCTTGATCTC  
AAAACAATAAAATTAAGGAAATCAAAGAAAATGATTTAAAGGACTCACTTCACTTATGGT  
CTGATCCTGAACAAACAAGCTAACGAAGATTCAACCCAAAAGCCTTCTAACCAACAAAGAA  
GTTGCGAAGGCTGTATCTGCCCACAATCAACTAAGTGAATACCACTTAATCTCCCAAAT  
CATTAGCAGAACTCAGAATTCACTGAAAATAAGTTAAGAAAATACAAAGGACACATTCAA  
GGAATGAATGCTTACACGTTGGAAATGAGTGCACCCCTCTGATAATAATGGGATAGA  
GCCAGGGGCATTGAAGGGTGACGGTGTCCATATCAGAATTGCGAGCAAACGACTGACCT  
CAGTCCTAAAGGCTTACCAACTTATTGGAGCTTCACTTAGATTATAATAAAATTCA  
ACAGTGGAACTTGAGGATTTAAACGATACAAAGAACTACAAAGGCTGGGCCTAGGAAACAA  
CAAATCACAGATATCGAAAATGGAGTCTGCTAACATACCACGTGTGAGAGAAATACATT  
TGGAAAACAATAAACTAAAAAAATCCCTCAGGATTACCAAGAGTTGAAATACTCCAGATA  
ATCTCCTTCATTCTAATTCAATTGCAAGAGTGGAGTAAATGACTCTGTCCAACAGTGCC  
AAAGATGAAGAAATCTTATACAGTGCATAAGTTATTCAACAAACCCGGTGAAATACTGGG  
AAATGCAACCTGCAACATTGCTGTGTTGAGCAGAATGAGTGTTCAGCTGGAACTTT  
GGAATGTAATAATTAGTAATTGGTAATGTCATTAAATATAAGATTCAAAATCCCTACATT  
TGGAAATCTGAACTCTATTAAATAATGGTAGTATTATATACAAAGCAAATATCTATTCTCA  
AGTGGTAAGTCCACTGACTTATTGACAAGAAATTCAACCGAATTGCGCAAACATT  
GATACATAAGGGTTGAGAGAAACAAGCATCTATTGAGCTTCCCTTGTACAAATGAT  
CTTACATAATCTCATGCTTGACCAATTCTTCTTCATAACAAAAAGTAAGATATTGGTA  
TTAACACTTGTATCAAGCACATTAAAAGAACTGTACTGTAATGGAATGCTGACT  
TAGCAAAATTGCTCTTCAATTGCTTAGAAAAACAGAATTAAACAAAGACAGTAATG  
GAAGAGTGCATTACACTATTCTTATTGAGTACTGGTAGTACTGTAATATTAAAT  
CATCTTAAAGTATGATTTGATATAATCTTATTGAAATTACCTTATGTCATTAGGCCGT  
CTTATGTTAAAACATAATTCTTAAATAAGCCTCAGTAAATGTCATTACCAACTG  
TAAATGCTACTCATAGAGCTGGTTGGGCTATAGCATATGCTTTTTTTAATTATT  
ACCTGATTAAAAATCTCTGAAAAACGTGTAGTGTTCATAAAATCTGTAACTCGCATT  
AATGATCCGCTATTATAAGCTTTAATAGCATGAAATTGTTAGGCTATATAACATTGCCAC  
TTCAACTCTAAGGAATATTGAGATATCCCTTGGAAGACACTGCTTGGAAAGAGCCTGGA  
CACTAACATTCTACACCAAATTGCTCTTCAAATACGTATGGACTGGATAACTCTGAGAAA  
CACATCTAGTATAACTGAATAAGCAGAGCATCAAATTAAACAGACAGAAACCGAAAGCTCTA  
TATAATGCTCAGAGTTCTTATGTATTCTTATTGGCATTCAACATATGAAAATCAGAAA  
ACAGGGAAATTTCATTAAAATATTGGTTGAAAT

107530-294-1660

## FIGURE 2

</usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA34392  
<subunit 1 of 1, 379 aa, 1 stop  
<MW: 43302, pI: 7.30, NX(S/T): 1  
MKEYVLLLFLALCSAKPFFSPSHIALKNMMLKDMEDTDDDDDDDDDDDEDNSLFPTREPR  
SHFFPFDFLFPMPGCPFGCQCYSRVVHCSDLGLTSVPTNIPFDTRMLDLQNNKIKEIKENDFKGL  
TSLYGLILNNNKLTAKIHPKAFLTTKLRRLYLSHNQLSEIPLNLPKSLAELRIHENKVKKIQ  
KDTFKGMNALHVLEMSANPLDNNGIEPGAFEGVTVFHIRIAEAKLTSVPKGLPPTLLELHLD  
YNKISTVELEDFKRYKELQRLGLGNNKITDIENGLANIPRVREIHLENNKLKKIPSGLPEL  
KYLQIIFLHSNSIARGVNDFCPTVPKMKKSLYSAISLFNNPVKYWEMQPATFRCVLSRMSV  
QLGNFGM

**Signal sequence.**

amino acids 1-15

**N-glycosylation site.**

amino acids 281-285

**N-myristoylation sites.**

amino acids 129-135, 210-216, 214-220, 237-243, 270-276, 282-288

**Leucine zipper pattern.**

amino acids 154-176

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## FIGURE 3

CGGACGCGTGGGCGGACGCGTGGGCCCGCSGACCGCCCCCGGCCCTCCGCCCTCCGCACTCGCGCCCTCC  
CTCCCTCCGCCCGCTCCCGCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCCCTCC  
GGCCCCGCCGGCCCCGCTGCTGCTCCTCGGGCTGCTGCTGCTCGGCTCCCGCCGGCCGGCCGGCCAGA  
GCCCGCGCTGCTGCCCATCCGTTCTGAGAAGGAGCCGCTGCCCTGGCTGGGAGCGGAGGGCTGACCTTCGGCG  
GAAGGTCTATGCCCTGGACGAGACGTGGCACCCGGACCTAGGGCAGGCCATTGGGTGATGCGCTGCGTGTG  
GCCCTGCGAGGCCCTCAGTGGGTGCCGTACCAGGGCCCTGGCAGGGCAGCTGCGGGACACTGCTGCCAGACCTGCC  
GTGCCAACCCCGGCCGTGGCAGCGCGCCAGCTGCCGGACACTGCTGCCAGACCTGCCAGGAGCGCAG  
CAGTCGGAGCGGCAGCCGAGCGGCCCTGCTCCCTGAGTATCCGGGGACCCGGAGCATGCAAGAACATCAAACAGA  
CGGGGAGCCAGGCCCTGAGGAGGGCCCGTGGTACGGCCACACGGACTTCGCTGGCGCTGCTGACAGGGCGAG  
GTCGAGGCCGTGGCACGAGCCGAGTCTGCTGCTCTAGCCTCCGTTCTATCTCTACAGGGCGCT  
GGACCGCCCTACCAGGATCCGCTTCTCAGACTCCAATGGCAGTGTCTGTTGAGCACCCCTGCAAGCCCCACCA  
AGATGGCCTGGTCTGTTGAGGAGCTGGCAGTGCCTCGGTTGCTCTGCCGCTCCTTAGGGCAGAACAGCTGCA  
TGTGGCACTTGTGACACTCACTCACCCCTCAGGGGAGGTCTGGGGCCTCTCATCCGGCACCGGGCCCTGGCTGC  
AGAGACCTTCAGTGCATCCTGACTCTAGAAGGCCCCCACAGCAGGGCGTAGGGGCATCACCTGCTCACTCT  
CAGTGACACAGAGGACTCCCTGCTTTGCTGCTCTTCCGAGGGCTGCTGGAACCCAGGAGTGGGGACTAAC  
CCAGGTTCCCTTGAGGCTCCAGATTCTACACCAGGGCAGCTACTGCGAGAACCTCAGGCAATGTCAGCCA  
GGAACCAGGCTTTGCTGAGGTGCTGCCAACCTGACAGTCCAGGAGATGACTGGCTGGTCTGGGGAGCTGCA  
GATGGCCCTGGAGTGGCAGGCAGGCCAGGGCTGCCATAGTGACACATTGCTGCCAGGAAGAGCTGCGACGT  
CCTGCAAAGTGTCTTGTGGGCTGATGCCCTGATCCCAGTCCAGACGGGTGCTGCCGCTAGCCAGCCTCAC  
GCTGCTAGGAAATGGCTCCCTGATCTATCAGGTGCAAGTGGTAGGGACAAGCAGTGGTGGTGGCATGACACT  
GGAGACCAAGCCTAGCGGAGGGATCAGCGCACTGCTCTGCCCACATGGCTGGACTCCAGCAGGAGGACACAC  
GGCCGTGGGTATCTGCCCTGGGCTGGGCGAGGGCTCATATGCTGCTGCAAGATGAGCTTCTGAACGT  
GGGCACCAAGGACTTCCCAGACGGAGAGCTCGGGCACGTGGCTGCCCTGCCCTACTGTGGCATAGGCCCG  
CCATGACACGCTGCCGTGCCCTAGCAGGAGCCCTGGTCTACCCCTGTGAAGAGCCAAGCAGCAGGGCACGC  
CTGGCTTCCCTGGATACCCACTGTCACCTGCACTATGAAGTGTGCTGGCTGGGCTGGCTCAGAACAAAGG  
CACTGTCACTGCCAACCTCCTGGGCTCCTGGAACGCCAGGGCCTCGGGCTGCTGAAGGGATTCTATGGCTC  
AGAGGCCAGGGTGTGGTAGAGGACCTGGAGCCGAATGCTGCGGACACTGGCAAAAGGCATGGCTCCCTGAT  
GATCACCACCAAGGGTAGCCCCAGAGGGAGCTCCGAGGGCAGGTGCACTAGCCAACCAATGTGAGGTTGGCGG  
ACTGCGCTGGAGGCCGGCGGGCGAGGGGTGCGGGCGTGGGGCTCCGGATACAGCCTGCTGCCCGCC  
TGTGGTGCCTGGTCTCCGCCCTAGGCCCGCAAACCTGGTGGCTGGGCCAGGCCAGAACACATG  
CTTCTTCGAGGGCAGCGGCCAACGGGCTCGCTGGGCCAAACTACGACCCGCTGCTCACTCTGAC  
CTGCCAGAGACGAACGGTATGTGACCCGGTGTGCCCCACCGCCAGCTGCCACACCCGGTGCAGGCTCC  
CGACCAAGTGCCTGGCTGGCCCTGAGAAACAAGATGTCAGAGACTTGCCAGGGCTGCCAGGAGCCGGACCC  
AGGAGAGGGCTGCTATTGTGATGGTAGCCGGAGCTGGCGGGCAGCGGGTACGCGTGGCACCCGGTGTGCC  
CTTGGCTTAATTAAGTGTGCTGCAACCTGCAAGGGGGACTGGAGAGGTGCACTGTGAGAAGGTGCACTG  
TCCCCGGCTGGCTGTGCCAGCCCTGTGCGTCAACCCACCGACTGCTGCAAACAGTGTCCAGTGGGGCTGG  
GGCCACCCCCAGCTGGGGACCCCATGCAAGGCTGATGGGCCAGGGCTGCCGTTTGCTGGCAGTGGTTCCC  
AGAGAGTCAGAGCTGGCACCCCTAGTGCCCTTTGGAGAGATGAGCTGATCACCTGCAAGATGTGGGCAGG  
GGTGCCTACTGTGAGGGATGACTGTTCACTGCCACTGCTCTGTCGGCTGGGGAGAGAGTCGATGCTGTT  
CCGCTGCAGGCCAACGGCGCCCCAGAGACCAAGAACTGATCCAGAGACTGGAGAGAAAGACCGAAGGGCTTAA  
GGGAGCAGCCAGAGGGCAAGTACGCAAGAGGATGGGCCAGCGGGTGGCATGAGGACCTTCTT  
GCATTCTCCTGTGGGAAGCCCAGTGCCTTGTGCTCCCTGTGCTGCCCTACTCCACCCCAACTACCTCTGGAA  
CCACAGCTCCACAAGGGGGAGAGGGCAGCTGGGCCAGACCGAGGTACAGGCCACTCCAAGTCTGCCCTGCCACCC  
TCGGCCTCTGTCTGGAAAGCCCCACCCCTTCTCTGTACATAATGTCAGTGGCTGGTGGGATTTAATT  
TCTTCACTCAGCACCAAGGGCCCCGACACTCCACTCCTGCTGCCCTGAGCTGAGCAGAGTCATTATTGGAGAG  
TTTGTATTTATTAAACATTCTTTCACTCAAAAAAAAAAAAAAAAAAAAAAA

APPROVED	O. G. FIG.
CLASS	SUBCLASS
BY	DRAFTSMAN

PHOTO 600-20844650

## FIGURE 4

><subunit 1 of 1, 954 aa, 1 stop

><MW: 101960, pI: 8.21, NX(S/T): 5

MPSLPAPPAPLLLGLLLGSRPARGAGPEPPVLPIRSEKEPLPVRAAGCTFGGKVYALDE  
TWHPDLGQPFGVMRVCVLCAEAPQWGRRTGPGRVSCKNIKPECPTPACGQPRQLPGHCQCT  
CPQERSSSERQPSGLSFEYPRDPEHRSYSDRGEPGAEERARGDHTDFVALLTGPRSQAVAR  
ARVSLLRSSLRFSISYRRLDRPTRIRFSDSNGSVLFEPAAPTQDGLVCGVWRRAVPRLSLRL  
LRAEQLHVALVTLTHPSGEVGPLIRHRALAAETFSAILTLEGPPQQGVGGITLLTLSDTED  
SLHFLLLFRGLLEPRSGGLTQVPLRLQILHQGQLLRELQANVSAQEPGFAEVLPNLTQEMD  
WLVLGELOMALEWAGRPGRLISGHIAARKSCDVLQSVLCGADALIPVQTGAAGSASLTLLGN  
GSЛИYQVQVVGTSSEVVAMTLETKPQRRDQRTVLCHMAGLQPGGHTAVGICPGLGARGAHML  
LQNELFLNVGKDFPDGELRGHVAALPYCGHSARHDTLPVPLAGALVLPPVKSQAAGHAWLS  
LDTHCHLHYEVLLAGLGGSEQGTVTAHLLGPPGTPGPRRLKGFYGSQAQGVVKDLEPELLR  
HLAKGMAISLMITTKGSPRGELRGQVHIANQCEVGGLRLEAAGAEGVRALGAPDTASAAPPV  
PGLPALAPAKPGGPGRPRDPNTCFEGQQRPHGARWAPNYDPLCSLCTCQRRTVICDPVVCP  
PPSCPQVQADQCCPVCPEKQDVRDLPGLPRSRDPGEGCYFDGDRSWRAAGTRWHPVVPPF  
GLIKCAVCTCKGGTGEVHCEVQCPRLACAQPVRVNPTDCKQCPVGSAGHPQLGDPMQADG  
PRGCRFAGQWFPEQSWSHPSVPPFGEMSCITCRCGAGVPHCERDDCSLPLSCGSGKESRCCS  
RCTAHRPPETRTDPELEKEAEGS

**Signal sequence.**

amino acids 1-23

**N-glycosylation sites.**

amino acids 217-221, 351-355, 365-369, 434-438

**Tyrosine kinase phosphorylation sites.**

amino acids 145-153, 778-786

**N-myristoylation sites.**

amino acids 20-26, 47-53, 50-56, 69-75, 73-79, 232-238, 236-242,  
390-396, 422-428, 473-479, 477-483, 483-489, 489-495, 573-579,  
576-582, 580-586, 635-641, 670-676, 773-779, 807-813, 871-877,  
905-911

**Amidation site.**

amino acids 87-91

**Cell attachment sequence.**

amino acids 165-168

**Leucine zipper pattern.**

amino acids 315-337

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FIGURE 4  
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## FIGURE 5

APPROVED	O. G. FIG.
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DRAFTSMAN	SUBCLASS

NOTE 60 - 298441660

GGCGGAGCAGCCCTAGCCGCCACCGTCGCTCGCAGCTCTCGCCACTGCCACCGCCGCCGCGTCAGCTGCG  
TCCTGGCTCCGGCTCCCGGCCCTCCCGGCCGCGCCATGCAAGCCCCGCCGCCAGGCGCCCGGTGCGCAGCTGC  
TGCCCGCGCTGGCCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG  
CCCGGCCCTG  
AGCCGGACCCGAGCACCCGGCCCCCGCCGGCGAGCCCTGGCTACAGCTGCACCTGCCCGGGATCTCCGGCG  
CCAAGTGCAGCTTGTGAGATCCTTGCCAGCAACCCCTGTCACCATGGCAACTGCAGCAGCAGCAGCA  
GCAGCAGCGATGGCTACCTCTGCAATTGCAATGAAGGCTATGAAGGCTTCAACTGTGAACAGGCACCTCCAGTC  
TCCCAGCCACTGGCTGGACGAATCCATGGCACCCGACAGCTTCAGCCTGTTCTGCTACTCAGGAGCCTGACA  
AAATCCTGCCTCGCTCAGGCAACGGTGAACACTGCCTACCTGGCAGCGAAAACAGGGCAGAAAGTTGAGAAA  
TGAAATGGGATCAAGTGGAGGTGATCCCAGATATTGCTGTGGGAATGCCAGTTCTAACAGCTCGCGGGTGGCC  
GCCTGGTATCCTTGAAAGTGCACAGAACACCTCAGTCAAGATTGGCAAGATGCCACTGCCTACTGATTTC  
TCTGGAAGGTACGGCCACAGGATTCCAACAGTGCCTCCCTCATAGATGGACGAAGTGTGACCCCCCTCAGGCTT  
CAGGGGACTGGTCTCCTGGAGGAGATGCTCGCCTGGGAATAATCACTTTATTGGTTTGTAATGATTCTG  
TGACTAAGTCTATTGGCTTTCGCTTAACTCTGGTGGTGAAGGTGAGCACCTGTGTGCCGGGGAGAGTCACG  
CAAATGACTTGGAGTGTTCAGGAAAAGGAAAATGCACCAACGAAGCCGTCAGAGGCAACTTTTCTGTACCTGT  
AGGAGCAGTACGTGGTACTTCTGTAAGAATACGATGCTGCCAGAGGAAACCTTGCACAAACACGCGAGCT  
GTATTGATGCAAATGAAAAGCAAGATGGGAGCAATTTCACCTGTGTTGCCTCTGGTTACTGGAGAGCTT  
GCCAGTCCAAGATTGATTACTGCATCCTAGACCCATGCAAGAAATGGAGCAACATGCATTCCAGTCTCAGTGGAT  
TCACCTGCCAGTGTCCAGAAGGAACTTGGATCTGTTGTGAAGAAAAGGTGGACCCCTGCGCCTCGTCTCCGT  
GCCAGAACACGGCACCTGCTATGGACGGGTACACTTACCTGCAACTGCAGCCGGCTTCACAGGGCCGA  
CCTGTGCCAGCTTATTGACTTCTGTGCCCTCAGCCCTGTGCTCATGGCACGTGCCAGCGTGGGACCCAGCT  
ACAAATGCCCTGTGATCCAGGTTACCATGGCCTCTACTGTGAGGAGGAATATAATGAGTGCCTCTCGCTCCAT  
GCCTGAATGCAGCCACCTGCAAGGGACCTCGTTAATGGCTATGAGTGTGTCCTGGCAGAAATACAAAGGAACAC  
ACTGTGAATTGTACAAGGATCCCTCGCTAACGTCAGCTGTGAACGGAGCCACCTGTGACAGCAGCGACGGCCTGA  
ATGGCACGTGCATCTGTGCACCCGGTTACAGGTGAAGAGTGCACATTGACATAATGAATGTGACAGTAACC  
CCTGCCACCATGGTGGAGCTGCCCTGGACCGCCAAATGGTTATAACTGCCACTGCCCATGGTGGGATTGCCGA  
TCTACATCATCATTGGAGCCCTCGCGTGGCTTCATCTTATGCTGATCATCCTGATCGTGGGATTGCCGA  
TCAGCCGATTGAATACCAGGTTCTCCAGGCCAGCCTATGAGGAGTTCTACAACTGCCAGCATCGACAGCG  
AGTTCAGCAATGCCATTGCATCCATCGCATGCCAGTTGGAAAGAAATCCGGCTGCAATGTATGATGTGA  
GCCCATGCCCTATGAAGATTACAGTCTGATGACAAACCTGGTACACTGATTAAACTAAAGATTGTAAT  
CTTTTTGGATTATTTCAAAAGATGAGATACTACACTCATTAAATATTTAAGAAAATAAAAGCTTAA  
GAAATTAAAATGCTAGCTGCTCAAGAGTTTCAGTAGAATATTAAGAACTAATTCTGAGCTTTAGTTG  
AAAAAAATTTAAAACAAATTGTGAAACCTATAGACGATTTAATGTACCTCAGCTCTAAACTGT  
GTGTTCTACTAGTGTGCTTTCACTGTAGACACTATCACGAGACCCAGATTAATTCTGTTGTTACA  
GAATAAGCTAATCAAGGAGAAGTTCTGTTGACGTTGAGTGCCTGAGTAGAGTTAGAAAACCAC  
GTAACGTAGCATATGATGTATAATAGAGTATACCGTTACTTAAAAGAAGTCTGAAATGTTGTTGTTGAAA  
AGAAACTAGTTAAATTACTATTCTAACCGAATGAAATTAGCCTTGCCTTATTCTGTCATGGTAAGTAAC  
TTATTCTGCACTGTTGTTGAACTTGTGGAAACATTCTCGAGTTGTTGTCATTTCGTAACAGTCG  
TCGAACTAGGCCTCAAAACATACGTAACGAAAAGGCCTAGCGAGGCAAATTCTGATTGATTGAATCTATATT  
TTCTTAAAGTCAAGGGTCTATATTGTGAGTAAATTAAATTACATTGAGTTGTTGCTAAGAGGTAG  
TAAATGTAAGAGAGTACTGGTCTTCAGTAGTGAAGTATTCTCATAGTCAGCTTATTATCTCCAGGATGTT  
TTTGTGGCTGTATTGATTGATATGTGCTTCTGATTCTGCTAATTCCAACCATATTGAATAATGTGATC  
AAGTCA

## FIGURE 6

><subunit 1 of 1, 737 aa, 1 stop

><MW: 78475, pI: 5.09, NX(S/T): 11

MQPRRAQAPGAQQLPALLLLLLGGAGPRGSSLANPVPAAPLSAPGPCAAQPCRNGGVCTSR  
PEPDHQHAPAPAGEPGYCTCPAGISGANCQLVADPCASNPCHGNSSSSSSDGYLCICN  
EGYEGPNCEQALPSLPATGWTESMAPRQLQPVATQEPDKILPRSQATVTLPTWQPKTGQKV  
VEMKWDQVEVIPDIACGNASSNSAGGRLVSFEVPQNTSVKIRQDATASSLILWKVATGFQ  
QCSLIDGRSVTPLQASGGLVLLEEMLALGNHHFIGFVNDSVTKSIVALRLTLVVKVSTCVPG  
ESHANDLECSKGKCTTKPSEATFCTCEEQYVGTFCCEYDACQRKPCQNNASCIDANEKQD  
GSNFTCVCLPGYTGELCQSKIDYCILDPCRNGATCISLSSGFTCQCPEGYFGSACEEKVDPC  
ASSPCQNNGTCYVDGVHFTCNCSPGFTGPTCAQLIDFCALSPCAHGTCSRSGTSYKCLCDPG  
YHGLYCEEYNECLSAPCLNAATCRDLVNGYECVCLAEYKGTHCELYKDPCANVSCLNGATC  
DSDGLNGTCICAPGFTGECDIDINECDSNPCHHGSCLDQPNPGYNCHCPHWVGANCEIHL  
QWKSGHMAESLTNMPRHSLYIIIGALCVAFLMLIILIVGICRISRIEYQGSSRPAYEEFYN  
CRSIDSEFSNAAISIRHARGKKSRAAMYDVSPIAYEDYSPDDKPLVTLIKTKDL

**Signal sequence.**

amino acids 1-28

**Transmembrane domain.**

amino acids 641-660

**N-glycosylation sites.**

amino acids 107-111, 204-208, 208-212, 223-227, 286-290, 361-365,  
375-379, 442-446, 549-553, 564-568

**Glycosaminoglycan attachment site.**

amino acids 320-324

**Tyrosine kinase phosphorylation sites.**

amino acids 490-498, 674-682

**N-myristylation sites.**

amino acids 30-36, 56-62, 57-63, 85-91, 106-112, 203-209,  
373-379, 449-455, 480-486, 562-568, 565-571

**Amidation site.**

amino acids 702-706

**Aspartic acid and asparagine hydroxylation site.**

amino acids 520-532, 596-608

**EGF-like domain cysteine pattern signatures.**

amino acids 80-92, 121-133, 336-348, 378-390, 416-428, 454-466,  
491-503, 529-541, 567-579, 605-617

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DRAFTSMAN

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## FIGURE 7

CTCTGGAAGGTACGGCCACAGGATTCCAACAGTGCTCCCTCATAGATGGACGAAAGTGTGA  
CCCCCCTTCAGGCTTCAGGGGACTGGTCCTCCTGGAGGAGATGCTGCCTGGGAATA  
ATCACTTATTGGTTTGTGAATGATTCTGTGACTAAGTCTATTGTGGCTTGCCTTAAC  
CTGGTGGTGAAGGTACGCACCTGTGTGCCGGGGAGAGTCACGCAAATGACTTGGAGTGTTC  
AGGAAAAGGAAAATGCACCAACGAAGCCGTCAAGAGGCAACTTTCTGTACCTGTGAGGAGC  
AGTACGTGGGTACTTCTGTGAAGAATACGATGCTGCCAGAGGAAACCTGCCAAAACAAAC  
GCGAGCTGTATTGATGCAAATGAAAAGCAAGATGGAGCAATTCACCTGTGTTGCCTTCC  
TGGTTATACTGGAGAGCTTGCCAACCGAACTGAGATTGGAGCGAACGACCTACACCGAACT  
GAGATAGGGGAG

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## FIGURE 8

CTCTGGAAGGTACGGCCACAGGATTCCAACAGTGCTCCCTCATAGATGGACGAAAGTGTGA  
CCCCCCTTCAGGCTTCAGGGGACTGGTCCTCCTGGAGGAGATGCTGCCTGGGAATA  
ATCACTTATTGGTTTGTGAATGATTCTGTGACTAAGTCTATTGTGGCTTGCGCTTAAC  
CTGGTGGTGAAGGTACGCACCTGTGTGCCGGGGAGAGTCACGCAAATGACTTGGAGTGTTC  
AGGAAAAGGAAAATGCACCAACGAAGCCGTCAAGAGGCAACTTTCTGTACCTGTGAGGAGC  
AGTACGTGGGTACTTCTGTGAAGAATACGATGCTGCCAGAGGAAACCTGCCAAACAAAC  
GCGAGCTGTATTGATGCAAATGAAAAGCAAGATGGGAGCAATTACCTGTGTTGCCTTCC  
TGGTTATACTGGAGAGCTTGCCAACCGAACTGAGATTGGAGCGAACGACCTACACCGAACT  
GAGATAGGGGAG

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	DAFTSMN

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## FIGURE 9

O.G. FIG.	SUBCLASS
CLASS	
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101580-2911650

GCTGAGTCTGCTGCTCCTGCTGCTGCTGCTCCAGCCTGTAACCTGTGCCTACACCACGCCAG  
GCCCCCCCAGAGCCCTCACCACGCTGGCGCCCCAGAGCCCACACC**ATGCCGGCACCTAC**  
GCTCCCTCGACCACACTCAGTAGTCCAGCACCAGGGCTGCAAGAGCAGGCACGGCCCT  
GATGCGGACTTCCCGCTCGTGGACGGCCACAAACGACCTGCCCTGGTCTAAGGCAGGTTT  
ACCAGAAAGGGCTACAGGATGTTAACCTGCGCAATTCTAGCTACGGCCAGACCAGCCTGGAC  
AGGCTTAGAGATGGCCTCGTGGCGCCAGTTCTGGTCAGCCTATGTGCCATGCCAGACCCA  
GGACCGGGATGCCCTGCGCCTCACCCCTGGAGCAGATTGACCTCATGCCGATGTGTGCCT  
CCTATTCTGAGCTGGAGCTTGTGACCTCGGCTAAAGCTCTGAACGACACTCAGAAATTGCC  
TGCCTCATCGGTAGAGGGTGGCACTCGCTGGACAATAGCCTCTCCATCTTACGTACCTT  
CTACATGCTGGAGTGCCTACCTGACGCTCACCCACACCTGCAACACACCCCTGGCAGAGA  
GCTCCGCTAAGGGCGTCCACTCCTCTACAACAAACATCAGCGGGCTGACTGACTTTGGTAG  
AAGGTGGTGGCAGAAATGAACCGCCTGGCATGATGGTAGACTTATCCCATGTCTCAGATGC  
TGTGGCACGGCGGGCCCTGGAAGTGTACAGGCACCTGTGATCTTCTCCACTCGGCTGCC  
GGGGTGTGTGCAACAGTGCTCGGAATGTTCTGATGACATCCTGCAGCTCTGAAGAAGAAC  
GGTGGCGTCGTGATGGTGTCTTGTCCATGGAGTAATAACAGTGCAACCCATCAGCCAATGT  
GTCCACTGTGGCAGATCACTCGACCACATCAAGGCTGTCATTGGATCCAAGTTCATGGGA  
TTGGTGGAGATTATGATGGGCCGGCAAATTCCCTCAGGGGCTGGAAGACGTGTCACATAC  
CCGGTCCTGATAGAGGAGTTGCTGAGTCGTGGCTGGAGTGAGGAAGAGCTTCAGGGTGTCC  
TCGTGGAAACCTGCTGCGGGTCTCAGACAAGTGGAAAAGGTACAGGAAGAAAACAAATGGC  
AAAGCCCCTGGAGGACAAGTCCGGATGAGCAGCTGAGCAGTTCCCTGCCACTCGACCTC  
TCACGTCTGCGTCAGAGACAGAGTCTGACTTCAGGCCAGGAACACTGAGATTCCCATA  
CTGGACAGCCAAGTTACCGCCAAGTGGTCAGTCTCAGAGTCCTCCCCCAGATGGCCCCAG  
TCCTTGCAGTTGTGGCACCTTCCAGTCCTATTCTGTGGCTCT**TGA**TGACCCAGTTAGTCC  
TGCCAGATGTCAGTGAGCAAGCCACAGACACCCACAAAGTTCCCTGTTGTGCAGGCACA  
AATATTCTGAAATAATGTTGGACATAG

## FIGURE 10

</usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA35595  
<subunit 1 of 1, 433 aa, 1 stop  
<MW: 47787, pI: 6.11, NX(S/T): 5  
MPGTYAPSTTLSSPSTQGLQEQRALMRDFPLVDGHNDLPLVLRQVYQKGLQDVNLRNFSYG  
QTSLDRRLRDGLVGAQFWASAYVPCQTQDRDALRLTLEQIDLIRRMCASYSELELVTSAKALND  
TQKLAACLIGVEGGHSLDNSLSILRTFYMLGVRYLTLHTCNPWAESSAKGVHSFYNNISGL  
TDFGEKVVAEMNRLGMMVDSLHVSDAVARRALEVSQAPVIFSHSAARGVCNSARNVPDDILQ  
LLKKNGGVMVSLSMGVIQCNPSANVSTVADHFDHIKAVIGSKFIGIGGDYDGAGKFPQGLE  
DVSTYPVLIEELLSRGWSEEELQGVLRGNLLRVFRQVEKVQEENKWQSPLEDKFPDEQLSSS  
CHSDLSRLRQRQSLTSGQELTEIPIHWTAKLPAKWSVSESSPHMAPVLAVVATFPVLILWL

**N-glycosylation sites.**

amino acids 58-62, 123-127, 182-186, 273-277

**N-myristoylation sites.**

amino acids 72-78, 133-139, 234-240, 264-270, 334-340, 389-395

**Renal dipeptidase active site.**

amino acids 134-157

DATE 09-29-93  
DRAFTSMAN BY O.G. FIG.  
CLASS SUBCLASS

## FIGURE 11

AAAACCTATAATATTCCGGATTATTCATACCGTCCCACCATGGGCGGGATCCGGCGCG  
CGAATTCTAAACCAACATGCCGGGCACCTACGCTCCCTGACCACACTCAGTAGTCCCAGCA  
CCCAGGGCCTGCAAGAGCAGGCACGGGCCTGATGCGGACTCCGCTCGTGGACGGCAC  
AACGACCTGCCCTGGTCCTAAGGCAGGTTACCAGAAAGGGCTACAGGATGTTAACCTGCG  
CAATTTCAGCTACGGCCAGACCAGCCTGGACAGGCTTAGAGATGGCCTCGTGGCGCCAGT  
TCTGGTCAGCCTATGTGCCATGCCAGACCCAGGACCGGGATGCCCTGCCTCACCTGGAG  
CAGATTGACCTCATGCCGCATGTGTGCCCTATTCTGAGCTGGAGCTTGTGACCTCGC  
TAAAGCTCTGAACGACACTCAGAAATTGGCCTGCCTCATCGGTGTAGAGGGTGCCACTCGC  
TGGACAATAGCCTCTCCATCTTACGTACCTTACATGCTGGAGTGCCTACCTGACGCTC  
ACCCACACCTGCAACACACCCCTGGCAGAGAGCTCCGCTAAGGGGTCCACTCCTCTACAA  
CAACATCAGCGGGCTGACTGACTTTGGTGAGAAGGTGGTGGCAGAAATGAACCGCTGGCA  
TGATGGTAGACTTATCCCATGTCTCAGATGCTGTGGCACGGGGGCTGGAAGTGTACAG  
GCACCTGTGATCTTCTCCACTCGCTGCCGGGTGTGCAACAGTGTCTGGAATGTTCC  
TGATGACATCCTGCAGCTCTGAAGAAGAACGGTGGCGTCGTGATGGTGTCTTGTCCATGG  
GAGTAATACAGTGCAACCCATCAGCCAATGTGTCCACTGTGGCAGATCACTCGACCACATC  
AAGGCTGTCACTGGATCCAAGTTCATCGGATTGGTGAGATTATGATGGGGCGGCAAATT  
CCCTCAGGGGCTGGAAGACGTGTCCACATACCCGGCCTGATAGAGGAGTTGCTGACTCGT  
GCTGGAGTGAGGAAGAGCTTCAGGGTGTCTCGTGGAAACCTGCTGGGTCTCAGACAA  
GTGGAAAAGGTACAGGAAGAAAACAAATGGCAAAGCCCCTGGAGGACAAGTCCGGATGA  
GCAGCTGAGCAGTTCTGCCACTCCGACCTCTCAGTCTGCGTCAGAGACAGAGTCTGACTT  
CAGGCCAGGAACACTCACTGAGATTCCCATACACTGGACAGCCAAGTTACAGCCAAGTGGTCA  
GTCTCAGAGTCTCCCCCACCCTGACAAAACACATGCCACCGTGCCAGCACCTGA  
ACTCCTGGGGGACCGTCAGTCTCCTCTCCCCAAAACCCAAGGACACC

APPROVED	O. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

FIGURE 11-29811650

## FIGURE 12

></usr/seqdb2/sst/DNA/Dnaseqs.full/ss.DNA35872  
><subunit 1 of 1, 446 aa, 0 stop  
><NX (S/T): 5  
MPGTYAPSTTLSSPSTQGLQEQRALMRDFPLVDGHNDLPLVLRQVYQKGLQDVNLRNFSYG  
QTSLDRLRDGLVGAQFWSAYVPCQTQDRDALRLTLEQIDLIRRMCASYSELELVTSAKALND  
TQKLAACLIGVEGGHSLDNSLSILRTFYMLGVRYLTLTHTCNTPWAESSAKGVHSFYNNISGL  
TDFGEKVVVAEMNRLGMMVDSLHVSDAVARALEVSQAPVIFSHSAARGVCNSARNVPDDILQ  
LLKKNGGVMVSLSMGVIQCNPSANVSTVADHFDHIKAVIGSKFIGIGGDYDGAGKFPQGLE  
DVSTYPVLIIELLSRGWSEEELQGVLRGNLLRVFRQVEKVQEENKWQSPLEDKFPDEQLSSS  
CHSDLSRLRQRQSLTSGQELTEIPIHWTAKLPAKWSVSESSPHDKTHTCPPCPAPELLGGP  
SVFLFPPPKPKDT

APPROVED	O.G. FIG.	SUBCLASS
BY	CLASS	
DRAFTSMAN		

1017320-200444-650

## FIGURE 13

CGCCCAGCGACGTGCGGGCGGCCTGGCCCGGCCCTCCCGCGCCCGGCCTGCGTCCCGGCC  
CTGCGCCACCGCCGCCGAGCGCAGCCCGCCGCCGCCCCGGCAGCGCCGGCCCCATGCC  
GCCGGCCGCCGGGGCCCCGCCGCCAATCCCGCGGCCGCCGCGCCGCGCTGCTGCCCTGCT  
GCTGCTGCTCTGCGTCCTCGGGCGCCGAGCCGGATCAGGAGCCCACACAGCTGTGATCA  
GTCCCCAGGATCCCACGTTCTCATCGGCTCCTCCCTGCTGGCCACCTGCTCAGTGCACGGA  
GACCCACCAGGAGGCCACCGCCGAGGGCCTCTACTGGACCCCTAACGGCGCCGCTGCC  
TGAGCTCTCCGTGACTCAACGCCCTCACCTGGCTCTGGCCCTGGCAACCTCAATGGGT  
CCAGGCAGCGGTGGGGACAACCTCGTGTGCCACGCCGTGACGGCAGCATCCTGGCTGG  
TCCTGCCTCTATGTTGGCCTGCCAGAGAAACCCGTCAACATCAGCTGCTGGTCCAAGAA  
CATGAAGGACTTGACCTGCCGCTGGACGCCAGGGGCCACGGGAGACCTTCCTCCACACCA  
ACTACTCCCTCAAGTACAAGCTTAGGTGGTATGCCAGGACAACACATGTGAGGAGTAC  
ACAGTGGGCCCACTCTGCCACATCCCCAAGGACCTGGCTCTTTACGCCCTATGAGAT  
CTGGGTGGAGGCCACCAACGCCCTGGCTCTGCCGCTCCGATGTACTCACGCTGGATATCC  
TGGATGTGGTGACCACGGACCCCCCGCCGACGTGACGTGAGGCCGTGGGGCCTGGAG  
GACCAGCTGAGCGTGCCTGGTGTGCCACCCGCCCTCAAGGATTCCTTTCAAGCAA  
ATACCAGATCCGCTACCGAGTGGAGGACAGTGTGGACTGGAAGGTGGGACATGTGAGCA  
ACCAGACCTCCTGCCGCTGGCCGGCCTGAAACCCGGCACCGTGTACTCGTGCAAGTGC  
TGCAACCCCTTGGCATCTATGGCTCCAAGAAAGCCGGATCTGGAGTGAGTGGAGCC  
CACAGCCGCTCCACTCCCCGAGCTGAGGCCGGGCCGGCGAGCTCAAGCAGTTGGCTGG  
GGGGCGGAGAGCCGAGCTGGGGCGGTGCGCGAGCTCAAGCAGTTGGCTGGCTGG  
AAGAAGCACGCGTACTGCTCCAACCTCAGCTTCCGCTCTACGACCAGTGGCAGC  
GCAGAAGTCGACAAGACCCGCAACCAGGACGAGGGATCTGCCCTGGGAGACGGGCA  
CGGCGAGAGGTCTGCCAGAAGCTGTAGGGCTCAGGCCACCTCCCTGCCACGTGG  
CGCAGAGGCCGAACCCAAACTGGGCCACCTCTGTACCCCTACTTCAGGGCACCTGAG  
CCTCAGCAGGAGCTGGGTGGCCCTGAGCTCCAACGCCATAACAGCTCTGACTCCCAC  
GAGGCCACCTTGGTGCACCCAGTGGGTGTGTGTGAGGGTTGGTTGAGTTGC  
CTAGAACCCCTGCCAGGGCTGGGGTGAGAAGGGAGTCATTACTCCCATTACCTAGGG  
CCTCCAAAAGAGTCCTTAAATAAATGAGCTATTAGGTGCTGTGATTGTGAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAACAAAAA  
AAAAAAAAAAAAAAAAAAAAA

APPROVED	O. G. FIG.
CLASS	SUBCLASS
BY	
DRAFTSMAN	

107500-21934-1560

## FIGURE 14

><ss.DNA38113

><subunit 1 of 1, 422 aa, 1 stop

><MW: 46302, pI: 9.42, NX(S/T): 6

MPAGRRGPAAQSARRPPPLPLLLLCLVLAGPAGSGAHTAVISPQDPTLLIGSLLATCSV  
HGDPPGATAEGLYWTLNRRLLPELSRVLNASTLALALANLNGSRQRSGDNLVCHARDGSIL  
AGSCLYVGLPPEKPVNISCWSKNMKDLTCRWTGAHGETFLHTNYSLKYLRLWYGQDNTCEE  
YHTVGPHSCHIPKDLALFTPYEIWVEATNRLLGSARSDVLTLDILDVVTTDPPPDVHVSRRGG  
LEDQLSVRVVSPPALKDFLFQAKYQIRYRVEDSVDWKVVDDVSNQTSCRLAGLKPGTVYFVQ  
VRCNPFYIGSKKAGIWSHPTAASTPRSERPGPGGGACEPRGGEPPSSGPVRRELKQFLG  
WLKKHAYCSNLSFRLYDQWRAWMQSHKTRNQDEGILPSGRRGTARGPAR

Signal sequence.

amino acids 1-30

Transmembrane domain.

amino acids 44-61

N-glycosylation sites.

amino acids 92-96, 104-108, 140-144, 168-172, 292-296, 382-386

cAMP- and cGMP-dependent protein kinase phosphorylation site.

amino acids 413-417

N-myristoylation sites.

amino acids 30-36, 37-43, 73-79, 121-127, 179-185, 218-224,  
300-306, 317-323, 320-326, 347-353, 355-361, 407-413

Amidation site.

amino acids 3-7, 79-83, 411-415

Growth factor and cytokines receptors family signature 2.

amino acids 325-331

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	DRAFTSMAN

DATE 08/25/94 6:00

## FIGURE 15

CCACGCGTCCGCTGGTAGATCGAGCAACCTCTAAAAGCAGTTAGAGTGGTAAAAAA  
AAAAAAAAACACACCAACCGCTCGCAGCCACAAAAGGGATGAAATTCTCTGGACATCCTC  
CTGCTTCTCCCGTTACTGATCGTCTGCTCCCTAGAGTCCTCGTGAAGCTTTATTCTAA  
GAGGAGAAAATCAGTCACCGCGAAATCGTGCTGATTACAGGAGCTGGCATGGAATTGGA  
GACTGACTGCCTATGAATTGCTAAACTAAAAGCAAGCTGGTCTCTGGATATAATAAG  
CATGGACTGGAGGAAACAGCTGCCAATGCAAGGGACTGGTGCAAGGTCATACCTTGT  
GGTAGACTGCAGCAACCGAGAAGATATTACAGCTCGCAAAGAAGGTGAAGGCAGAAATTG  
GAGATGTTAGTATTAGTAAATAATGCTGGTAGTCTATACATCAGATTGTTGCTACA  
CAAGATCCTCAGATTGAAAAGACTTTGAAGTTAATGTACTTGCACATTCTGGACTACAAA  
GGCATTCTTCCTGCAATGACGAAGAATAACCATGCCATTGTCAGTGGCTCGGCAG  
CTGGACATGTCTCGTCCCCCTTACTGGCTACTGTTCAAGCAAGTTGCTGCTGTTGGA  
TTTCATAAAACTTGACAGATGAACACTGGCTGCCTACAAATACTGGAGTCAAAACAACATG  
TCTGTGCCTAATTGTAACACTGGCTCATCAAAATCCAAGTACAAGTTGGACCCA  
CTCTGGAACCTGAGGAAGTGGTAAACAGGCTGATGCATGGATTCTGACTGAGCAGAAGATG  
ATTTTATTCCATCTTCTATAGCTTTTAACAACATTGAAAGGATCCTCCTGAGCGTT  
CCTGGCAGTTTAAAACGAAAATCAGTGTAAAGTTGATGCAGTTGATGTCATCTA  
AAGCGCAATAGCACCTAGTTCTGAAAACGATTACCTTACCAAGGTTAGGTTGATGTCATCTA  
ATAGTGCAGAATTAAATGTTGAACCTCTGTTCTAATTATCCCCATTCTCAATA  
TCATTGGAGGCTTGGCAGTCTCATTACTACCACTTGTCTTAGCCAAAAGCTGATT  
ACATATGATATAACAGAGAAACCTTAGAGGTGACTTAAGGAAAATGAAGAAAAGAA  
CCAAAATGACTTATTAAAATAATTCCAAGATTATTGTTGCTCACCTGAAGGCTTGCAA  
ATTGTTGACCATACCCTTATTAAACATATATTGTTGATTGCACTAAATTGTT  
ATAATTGTTGTTCTTTCTGTTCTACATAAAATCAGAAACTCAAGCTCTAAATAAAA  
TGAAGGACTATATCTAGGGTATTCAACATGAATATCATGAACCTCAATGGTAGGTTTC  
ATCCTACCCATTGCCACTCTGTTCTGAGAGATACCTCACATTCCAATGCCAACATTCT  
GCACAGGGAGCTAGAGGTGGATACACGTGTTGCAAGTATAAAAGCATCACTGGATTAAAG  
GAGAATTGAGAGAATGTACCCACAAATGGCAGCAATAATAATGGATCACACTTAAAAAAA  
AAAAAAA  
AAAAAAA

APPROVED	O. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

101050 298441660

## FIGURE 16

</usr/seqdb2/sst/DNA/Dnaseqs.full/ss.DNA34436  
<subunit 1 of 1, 300 aa, 1 stop  
<MW: 32964, pI: 9.52, NX(S/T): 1  
MKFLLDILLLPLLIVCSLESFVKLFIPKRRKSVTGEIVLITGAGHIGRLTAYEFAKLKSK  
LVLWDINKHGLEETAAKCKGLGAKVHTFVVDCSNREDIYSSAKVKAEIGDVSILVNNAGVV  
YTSDLFATQDPQIEKTFEVNVLAHFWTTKAFLPAMTKNNHGHIVTVASAAGHVSVPFLAYC  
SSKFAAVGFHKTLTDELAALQITGVKTTCLCPNFVNTGFIKNPSTSLGPTLEPEEVVNRLMH  
GILTEQKMIFIPSSIAFLTLERILPERFLAVLKRKISVKFDAVIGYKMKAQ

**Signal sequence.**

amino acids 1-19

**Transmembrane domain.**

amino acids 170-187

**cAMP- and cGMP-dependent protein kinase phosphorylation sites.**

amino acids 30-34, 283-287

**N-myristoylation sites.**

amino acids 43-49, 72-78, 122-128, 210-216

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	
DRAFTSMAN	

101580-29844-60

## FIGURE 17

GAAGTAGTTCTTTGGAGTCTGGGAGGAGGAAAGCGGAGCCGGCAGGGAGCGAACCCAGGACTG  
GGGTGACGGCAGGGCAGGGGGCGCTGGCCGGGAGAAGCGGGGGCTGGAGCACCAAA  
CTGGAGGGTCCGGAGTAGCGAGCGCCCCGAAGGAGGCCATGGGGAGCCGGAGGGGGACT  
GCGAGAGGACCCCGCGTCCGGCTCCGGTGCAGCGAT**G**AGGCCACTCCTCGTCTGC  
TGCTCCTGGGCTGGCGGGCTCGCCCCACTGGACGACAACAAGATCCCCAGCCTCTGC  
CCGGGGCACCCGGCCTCCAGGCACGCCGGCCACCATGGCAGCCAGGGCTGCCGGGCG  
CGATGGCCGCGACGGCCGCGACGGCGCCGGCTCCGGAGAGAAAGGCAGGGCGGA  
GGCCGGACTGCCGGACCTCGAGGGGACCCGGCGAGGAGAGGCAGGGACCCGCGGG  
CCCACCGGGCTGCCGGGAGTGCTCGGTGCCTCCCGATCCGCTTCAGCGCCAAGCGCTC  
CGAGAGCCGGGTGCCTCCCGTCTGACGCACCTGCCCTGACCGCGTGCTGGTGAACG  
AGCAGGGACATTACGACGCCGTACCGGCAAGTTCACCTGCCAGGTGCCCTGGGTCTACTAC  
TTCGCCGTCCATGCCACCGTCTACCGGCCAGCCTGCAGTTGATCTGGTGAAGAATGGCGA  
ATCCATTGCCCTTTCTTCAGTTTCGGGGGGTGGCCAAGCCAGCCTCGCTCGGGGG  
GGGCCATGGTGAGGCTGGAGCCTGAGGACCAAGTGTGGTGCAGGTGGTGTGGTGAAC  
ATTGGCATCTATGCCAGCATCAAGACAGACAGCACCTCTCCGGATTCTGGTACTCCGA  
CTGGCACAGCTCCCACTTGTTA**G**TGCCACTGCAAAGTGAGCTATGCTCTCACTCC  
TAGAAGGAGGGTGTGAGGCTGACAACCAGGTCACTCCGGCTGCTGGCAAGGAATGGAAC  
GTGAATGACTAGGGAGGTGGGTAGAGCACTCTCCGTCTGCTGGCAAGGAATGGAAC  
AGTGGCTGTGCGATCAGGTCTGGCAGCATGGGCAGTGGCTGGATTCTGCCAAGACCA  
GAGGAGTGTGCTGTGCTGGCAAGTGTAAAGTCCCCAGTTGCTCTGGTCCAGGAGCCCACGGT  
GGGGTGTCTCTGGCCTCTGCTTCTGGATCCTCCCCACCCCTGCTCCTGG  
GCCGCCCTTCTCAGAGATCACTCAATAAACCTAAGAACCCCTATAAAAAAAAAAAAA  
AAAAAAAAAAAA

APPROVED	O. G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

TOP ESO 29874-150

## FIGURE 18

```
></usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA40592
><subunit 1 of 1, 243 aa, 1 stop
><MW: 25298, pI: 6.44, NX(S/T): 0
MRPLLVLLLLGLAAGSPLDDNKIPSLCPGHPGLPGTPGHGSQGLPGRDGRDGRDGA
PGEKGEGRPGLPGPRGDPGPRGEAGPAGPTGPAGECSVPPRSAFSAKRSESRVPPPS
DAPLPFDRV
LVNEQGHYDAVTGKFTCQVPGVYYFAVHATVYRASLQFDLVKNGESIASFFQFFGGWP
KPASLSGGAMVRLEPEDQVWVQVGVDYIGIYASIKTDSTFSGFLVYSDWHSSPVFA
```

**signal sequence.**

amino acids 1-15

**N-myristoylation sites.**

amino acids 11-17, 68-74, 216-222

**Cell attachment sequence.**

amino acids 77-80

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	
DRAFTSMAN	

7014520 29344660

## FIGURE 19

CTCTTTGTCCACCAGCCCAGCCTGACTCCTGGAGATTGTGAATAGCTCCATCCAGCCTGAG  
AAACAAGCCGGGTGGCTGAGCCAGGCTGTGCACGGAGCACCTGACGGGCCAACAGACCC**AT**  
GCTGCATCCAGAGACCTCCCTGGCCGGGGCATCTCCTGGCTGTGCTCCTGGCCCTCCTG  
GCACCACCTGGCAGAGGTGTGGCCACCCCAGCTGCAGGAGCAGGCTCCGATGGCCGGAGCC  
CTGAACAGGAAGGAGAGTTCTGCTCCTCCCTGCACAACCGCCTGCGCAGCTGGTCCA  
GCCCCCTGCGGCTGACATGCGGAGGCTGGACTGGAGTGACAGCCTGGCCAACTGGCTCAAG  
CCAGGGCAGCCCTCTGTGGAATCCAACCCGAGCCTGGCATCCGGCCTGTGGCGCACCTG  
CAAGTGGGCTGGAACATGCAGCTGCTGCCCGGGCTTGGCGTCTTGTGAAGTGGTCAG  
CCTATGGTTGCAGAGGGCAGCGGTACAGCCACGCGCAGGAGAGTGTGCTCGCAACGCCA  
CCTGCACCCACTACACGCAGCTCGTGGGCCACCTCAAGCCAGCTGGCTGTGGCGGCAC  
CTGTGCTCTGCAGGCCAGACAGCGATAGAACGCTTGTCTGCTACTCCCCGGAGGCAA  
CTGGGAGGTCAACGGGAAGACAATCATCCCTATAAGAAGGGTGCCTGGTGTGCTCTGCA  
CAGCCAGTGTCTCAGGCTGCTCAAAGCCTGGACCATGCAGGGGGCTCTGTGAGGTCCCC  
AGGAATCCTTGTGCGATGAGCTGCCAGAACCATGGACGTCTAACATCAGCACCTGCCACTG  
CCACTGTCCCCCTGGCTACACGGCAGATACTGCCAAGTGAGGTGCAGCCTGCAGTGTG  
ACGGCCGGTTCCGGAGGAGGAGTGCTCGTGCCTGTGACATCGGCTACGGGGAGCCAG  
TGTGCCACCAAGGTGCATTTCCCTCACACCTGTGACCTGAGGATCGACGGAGACTGCTT  
CATGGTGTCTTCAGAGGCAGACACCTATTACAGAGCCAGGATGAAATGTCAGAGGAAGGCG  
GGGTGCTGGCCAGATCAAGAGCCAGAAAGTGCAAGGACATCCTGCCTCTATCTGGCCGC  
CTGGAGACCACCAACGAGGTGACTGACAGTGACTTCGAGACCAGGAACCTCTGGATGGCT  
CACCTACAAGACCGCCAAGGACTCCTCCGCTGGCCACAGGGAGCACCAGGCCTCACCA  
GTTTGCTTTGGCAGCCTGACAACCACGGCTGGTGTGGCTGAGTGCTGCCATGGGTTT  
GGCAACTGCGTGGAGCTGCAGGCTTCAGCTGCCTCAACTGGAACGACCAGCGCTGCAAAC  
CCGAAACCGTTACATGCCAGTTGCCAGGAGCACATCTCCGGTGGGCCAGGGCCT  
**G**AGGCCTGACCACATGGCTCCCTGCCCTGGAGCAGGACATGCCAAAGAGGTCTCAGA  
CCACCTGTCTGGAACAAGGGCAGGTTAAGACCACATGCCATGTCAAAGAGGTCTCAGA  
CCTTGACAAATGCCAGAAGTTGGCAGAGAGAGGCAGGGAGGCCAGTGAGGGCCAGGGAGTG  
AGTGTAGAAGAAGCTGGGCCCTCGCCTGCTTGTGATTGGAAAGATGGCTCAATTAGA  
TGGCGAAGGAGAGGACACGCCAGTGCTCAAAAAGGCTGCTCTTCCACCTGGCCAGAC  
CCTGTGGGGCAGCGGAGCTTCCCTGTGGCATGAACCCACGGGTATTAAATTATGAATCAG  
CTGAAAAAAAAAAAAA

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

DATE 08-29-1960

## FIGURE 20

</usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA44176

<subunit 1 of 1, 455 aa, 1 stop

<MW: 50478, pi: 8.44, NX(S/T): 2

MLHPETSPGRGHLLAVLLALLGTTWAEVWPPQLQEAPMAGALNRKESFLLSLHNRLRSWV  
QPPAADMRRLDWSDSLAQLAQARAALCGIPTPSLASGLWRTLQVGWNMQLLPAGLASFVEVV  
SLWFAEGQRYSHAAGECARNATCTHYTQLVWATSSQLGCRHLCAGQTAIEAFVCAYSPGG  
NWEVNGKTIIPYKKGAWCSLCTASVSGCFKAWDHAGGLCEVPRNPCRMSQNHGRLNISTCH  
CHCPCPGYTGRYCQVRCSLQCVHGRFREEECSCVCDIGYGGAQCATKVHFPFHTCDLRIDGDC  
FMVSSEADTYYRARMKCQRKGGVLAQIKSQKVQDILAFYLGRLTTNEVTDSDFETRNFWIG  
LTYKTAKDSFRWATGEHQAFTSFAFGQPDNHGLVWLSAAMGFGNCVELQASAAFNWNDQRCK  
TRNRYICQFAQEHIISRWGPGS

**Signal sequence.**

amino acids 1-26

**Transmembrane domain.**

amino acids 110-124

**N-glycosylation sites.**

amino acids 144-148, 243-247

**cAMP- and cGMP-dependent protein kinase phosphorylation site.**

amino acids 45-49

**N-myristoylation sites.**

amino acids 22-28, 99-105, 131-137, 201-207, 213-219, 287-293,  
288-294, 331-337, 398-404

**Prokaryotic membrane lipoprotein lipid attachment site.**

amino acids 204-215

**EGF-like domain cysteine pattern signature.**

amino acids 249-261, 280-292

**C-type lectin domain signature.**

amino acids 417-442

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	
DRAFTSMAN	

DATE 08/22/2000

## FIGURE 21

CGGACGCGTGGCTGGCGCTGCAAAGCGTGTCCCAGGGTCCCCGAGCGTCCCAGCC  
CGCCCCGCCATGCTCTGCTGGGCTGTGCCTGGGCTGTCCCTGTGTGGGTGCGCA  
GGAAGAGGCCAGAGCTGGGCCACTCTTGGAGCAGGATGGACTCAGGGTCCCAGGCAAG  
TCAGACTGTTGAGGGCTGAAAACCAACCTTGATGACAGAATTCTCAGTGAAGTCTACC  
ATCATTCCGTTATGCCTCACTACGGTTCCAGTGCAGATTCCAGCTGCAGCTTCATACCAACTTCACTATGC  
CCAGGACATTGAGTTCCAGATGCAGATTCCAGCTGCAGCTTCATACCAACTTCACTATGC  
TTATTGGAGACAAGGTGTATCAGGGCAAATTACAGAGAGAGAAAAGAAGAGTGGTGTAGAG  
GTAAGAGAGAAAAGAATAAAACACAGAAGAAAATGGAGAGAAGGGACTGAAATATTAG  
AGCTTCTGCAGTGATTCCCAGCAAGGACAAAGCCGCTTTCTGAGTTATGAGGAGCTTC  
TGCAGAGGCCCTGGCAAGTACGAGCACAGCATCAGCGTGGGCCAGCAGCTGCC  
AGGCTGAGCGTGGACGTGAATATCCTGGAGAGCGCGGGCATCGATCCCTGGAGGTGCTGCC  
GCTTCACAACAGCAGGCAGAGGGCAGTGGCGCGGGAAAGATGATTCTGGGCCTCCCCAT  
CTACTGTCAATTACCAAAATGAAACATTGCCAACATAATTAAACACTGTAGTACAA  
CAAGCCAGGATTGCCAGAATGGAATTGGAGACTTATCATTAGATATGACGTCAATAG  
AGAACAGAGCATTGGGACATCCAGGTTCTAAATGGCTATTGTCACACTTGCTCCTA  
AAGACCTCCTCTTACCAAGAATGTGGTATTGCTGCTTGACAGCAGTGTCTATGGTG  
GGAACCAAACCTCCGCAGACCAAGGATGCCCTCTCACAAATTCTCCATGACCTCCGACCCCA  
GGACCGTTTCAGTATGGATTTCACCGGATCAAAGTATGGAAGGACCAACTGATAT  
CAGTCACTCCAGACAGCATCAGGGATGGGAAAGTGTACATTACCATATGTCACCCACTGGA  
GGCACAGACATCAACGGGCCCTGCAGAGGGCATCAGGCTCTCACAAAGTACGTGGCCCA  
CAGTGGATTGGAGACCGGAGCGTGTCCCTCATCGTCTTGACGGATGGGAAGGCCACGG  
TCGGGAGACGACACCCCTCAAGATCCTCAACAAACACCCGAGAGGCCGGGAGGCCAGTC  
TGCATCTTCAACCATTGGCATGGCAACGACGTGGACTTCAGGCTGCTGGAGAAACTGTCGCT  
GGAGAACTGTGGCCTCACACGGCGGTGACAGGAGGAGGACGCAGGCTCGCAGCTCATCG  
GGTTCTACGATGAAATCAGGACCCGCTCTCTGACATCCGCATCGATTATCCCCCAGC  
TCAGTGGTGAGGCCACCAAGACCCCTGTTCCCAACTACTTCACGGCTGGAGATCATCAT  
TGCGGGAAAGCTGGTGACAGGAAGCTGGATCACCTGCACGTGGAGGTACCGCCAGCAACA  
GTAAGAAATTCATCATCCTGAAGACAGATGTGCCTGTGCGGCCCTCAGAAGGCAGGGAAAGAT  
GTCACAGGAAGCCCCAGGCCTGGAGGCGATGGAGAGGGGACACCAACCACATGAGCGTCT  
CTGGAGCTACCTCACCACAAAGGAGCTGCTGAGCTCCTGGCTGAGCTACCGCTTCTCACTCCC  
AGAAGGAGCGGCTGGCAGCGGGCCAGGCCCTGGCTGTGAGCTACCGCTTCTCACTCCC  
TTCACCTCCATGAAGCTGAGGGGCCGGTCCCACGCATGGATGGCTGGAGGAGCTGGCACCGCAGC  
CATGTCGGCTGCCATGGGACCGAACCGGTGGTGCAGAGCGTGCAGGAGCTGGCACCGCAGC  
CAGGACCTTGCTCAAGAAGCCAAACTCCGTAAAAAAAAACAAAACAAAACAAAAAAAAGA  
CATGGGAGAGATGGTTTCTCTCCACCACTGGGATACGATGAGAAGATGGCCACCT  
GCAAGCCAGGAAGACGCCCTCACAGACACCATGTCTGCTGGCACCTGATCTGGACCTC  
CCAGCCTCCAGAACTGTGAGAAATAATGTGTTAGCTAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

APPROVED	D.G. F.C.
CLASS	SUBCLASS
BY	
DRAFTSMAN	

NOTE 30 " 29311660

## FIGURE 22

APPROVED	C. G. FIG.	SUBCLASS
CLASS		
BY		
DRAFTSMAN		

```
</usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA44192
<subunit 1 of 1, 694 aa, 1 stop
<MW: 77400, PI: 9.54, NX(S/T): 6
MLLLGLCLGLSLCVGSQEEAQSWGHSSEQDGLRVPQRVRLQLKTKPLMTEFSVKSTIIS
RYAFTTVSCRMLNRASEDQDIEFQMQIPAAAFITNFTMLIGDKVYQGEITEREKKSGDRVKE
KRNKTTEENGEGKTEIFRASAVIPSVDKAAFFLSYEELLQRRLGKYEHSISVRPQQLSGRSL
VDVNILESAGIASLEVLPLHNSRQRGSGRGEDESGPPPSTVINQNETFANIIFKPTVVQQAR
IAQNGILGDFIIRYDVNREQSIGDIQVLNGYFVHYFAPKDLPLPKNVVFVLDSSASMVGTK
LRQTKDALFTILHDLRPQDRFSIIGFSNRIKVWKDHLISVTPDSIRDGKVYIHMSPTGGTD
INGALQRAIRLLNKYVAHSGIGDRSVSLIVFLTDGKPTVGETHTLKILNNNTREAARGQVCIF
TIGIGNDVDFRLLEKLSLENCGLTRRVHEEEDAGSQLIGFYDEIRTPLLSDIRIDYPPSSVV
QATKTLFPNYFNGSEIIIAGKLVDRKLDHLHVEVTASNNSKKFIILKTDVPVRPQKAGKDVTG
SPRPGGDGEGDTNHIERLWSYLTTEKELLSSWLQSDDEPEKERLRQRAQALAVSYRFLTPFTS
MKLRGPVPRMDGLEEAHMSAAMGPEPVVQSVRGAGTQPGPLLKKPNSVKKQNKTKRHGR
DGVFPLHHLGIR
```

**Signal sequence.**

amino acids 1-14

**N-glycosylation sites.**

amino acids 97-101, 127-131, 231-235, 421-425, 508-512, 674-678

**Glycosaminoglycan attachment sites.**

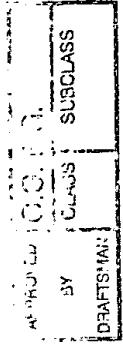
amino acids 213-217, 391-395

**N-myristoylation sites.**

amino acids 6-12, 10-16, 212-218, 370-376, 632-638, 638-644

## FIGURE 23

CGGACGCGTGGGTGCCGACATGGCGAGTGTAGTGCTGCCGAGCGGATCCCAGTGTGCGGC  
GGCAGCGCGCGCGCGCGCCTCCCGGCTCCGGCTCTGCTGTTCTCCGCCGCG  
CACTGATCCCCACAGGTGATGGCAGAATCTGTTACGAAAGACGTGACAGTGATCGAGGGA  
GAGGTTGCGACCATCAGTGCCAAGTCAATAAGAGTGACGACTCTGTGATTCACTGAA  
TCCCAACAGGCAGACCATTATTCAGGGACTTCAGGCCTTGAAGGCAGCAGGTTCACTG  
TGCTGAATTTCAGCAGTGAACCTCAAAGTATCATTGACAAACGTCTCAATTCTGATGAA  
GGAAGATACTTTGCCAGCTCTACCGATCCCCACAGGAAGTTACACCACCATCACAGT  
CCTGGTCCCACCACGTAATCTGATGATCGATATCCAGAAAGACACTGCGGTGGAAGGTGAGG  
AGATTGAAGTCAACTGCACTGCTATGCCAGCAAGCCAGCCAGCTATCAGGTGGTCAAA  
GGGAACACAGAGCTAAAGCAAATCGGAGGTGGAAGAGTGGTCAGACATGTACACTGTGAC  
CAGTCAGCTGATGCTGAAGGTGACAAGGAGGACGATGGGTCCCAGTGATCTGCCAGGTGG  
AGCACCCTGCGGTCACTGAAACCTGCAGACCCAGCGGTATCTAGAAGTACAGTATAAGCCT  
CAAGTGCACATTCACTGACTTATCCTCTACAAGGTTAACCGGGAAAGGGACGCGCTTGA  
GTTAACATGTGAAGCCATCGGAAGCCCCAGCCTGTGATGGTAACTTGGTGAGAGTCGATG  
ATGAAATGCCTCAACACGCCGTACTGCTGGGCCAACCTGTTCAATAACCTAAACAAA  
ACAGATAATGGTACATACCGCTGTGAAGCTCAAACATAGTGGGAAAGCTCACTCGGATTA  
TATGCTGTATGTATACGATCCCCCACAACATCCCTCCTCCCACAACAACCACCA  
CCACCACCACCACCACTCCTACCATCACAGATTCCGAGCAGGTGAAGAAGGC  
TCGATCAGGGCAGTGGATCATGCCGTGATCGTGGCGTGTGGCGGTGGTGGTGGTGCCT  
GCTGTGCTTGCATCATTCTGGGCGCTATTGCCAGACATAAGGTACATACTTCAC  
ATGAAGCCAAGGAGCCGATGACGAGCAGACAGCAGCTATAATCAATGCAGAAGGA  
GGACAGAACAACTCCGAAGAAAAGAAAGAGTACTTCATCTAGATCAGCTTTGTGTTCAAT  
GAGGTGTCCAACTGGCCCTATTAGATGATAAGAGACAGTGATATTGG



100-293460

## FIGURE 24

</usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA39518

<subunit 1 of 1, 440 aa, 1 stop

<MW: 48240, pI: 4.93, NX(S/T): 7

MASVVLPSGSQCAAAAAAAAPPGLRLLLLLFSAAALIPTGDGQNLFTKDVTVIEGEVATISC  
QVNKSDDSVIQLLNPNRQTIYFRDFRPLKDSRFQLLNFSSSELKVSLTNVISDEGRYFCQL  
YTDPPQESYTTITVLVPPRNLMDIQKDTAVEGEIEVNCTAMASKPATTIRWFKGNTELKG  
KSEVEEWSDMYTVTSQMLKVHKEDDGVPVICQVEHPAVTGNLQTQRYLEVQYKPQVHIQMT  
YPLQGLTREGDALELTCEAIGKPQPVMVTWVRVDEMPQHAVLSGPNLFINNLNKTNGTYR

AVIGGVVAVVVFAMLCLLILGRYFARHKGTYFTHEAKGADDAADATIINAEGGQNNSEE

KKEYFI

**Signal sequence.**

amino acids 1-36

**Transmembrane domain.**

amino acids 372-393

**N-glycosylation sites.**

amino acids 65-69, 99-103, 111-115, 163-167, 302-306, 306-310,

430-434

**Tyrosine kinase phosphorylation sites.**

amino acids 233-240, 319-328

**N-myristoylation sites.**

amino acids 9-15, 227-233, 307-313, 365-371, 376-382, 402-408,

411-417, 427-433, 428-432

APPROVED	O.G. FIG.	SUBCLASS
BY	CLASS	
DRAFTSMAN		

TOP SECRET//SI//EYES ONLY

## **FIGURE 25**

APPROVED BY	O.G. FIG.	SUBCLASS
	CLASS	

DRAFTSMAN

GGGGCGGGTGGACGCGGACTCGAACCGCAGTGCTTCGGGACCCAGGACCCCTCGGGCCCGA  
CCCGCCAGGAAAGACTGAGGCCGCGGCTGCCCGCCGGCTCCCTGCGCCGCCGCC  
CCGGGACAGAAGATGTGCTCCAGGGTCCCTGCTGCTGCCGCTGCTCTGCTACTGGCC  
GGGGCTGGGTGCAGGGCTGCCATCCGGCTGCCAGTGAGCCAGCACAGACAGTCTTCT  
GCACTGCCGCCAGGGACCACGGTGCCCCGAGACGTGCCACCCGACACGGTGGGCTGTAC  
GTCTTGAGAACGGCATCACCATGCTGACGCAAGCAGCTTGCCGCCCTGCTGCTGCTGG  
GCTCTGGACCTGTACAGAACAGATGCCAGCCTGCGCTGCCGCCCTGCTGCTGCTGG  
ACCTCAGCCACAACAGCCTCTGGCCCTGGAGGCCGGCATCTGGACACTGCCAACGTGGAG  
GCGCTGGGCTGGCTGGCTGGGCTGCAGCAGCTGGACGAGGGCTTCAAGCCGCTTGC  
CAACCTCCACGACCTGGATGTGCTGACAACCAGCTGGAGCGAGTGCACCTGTGATCCGAG  
GCCTCCGGGGCCTGACGCCCTGGCTGGGCTGCAGCAGCTGGACGAGGGCTTCAAGCCGCTTGC  
GAGGACCTGGCCGGCTGGCTGCCCTGCAGGAGCTGGATGTGAGAACCTAACGCTGCAGGC  
CTTGCTGGCAGCCTCTGGCCTCTTCCCCGCCCTGGGCTGCTGGCAGCTGCCGCCAAC  
CCTTCAACTGCGTGTGCCCTGAGCTGGTTGGCCCTGGGTGCCGAGAGGCCACGTACA  
CTGGCCAGCCCTGAGGAGACGCCACTTCCGCCAACAGCAGCCACAGTGCACCA  
GGAGCTTGACTACGCCACTTGGCTGCCAGCCACCACACCACAGCCACAGTGCACCA  
CGAGGCCGTGGTGCAGGCCACAGCCTGTCTCTAGCTTGGCTCCTACCTGGCTTAGC  
CCCACAGGCCGCCACTGAGGCCAGGCCCTACAGCCTACGCCACCGACTGTAGGGCC  
TGTCCCCCAGCCCCAGGACTGCCACCGTCCACCTGCCCTCAATGGGGCAGATGCCACCTGG  
GGACACGGCACCACCTGGCGTCTGTGCCCTGAAGGCTCACGGGCTGTACTGTGAGAGC  
CAGATGGGGAGGGACACGCCAGGCCCTACACCAGTCAGCCGAGGCCACCACGGTCC  
GACCCCTGGCATCGAGCCGTGAGGCCACCTCCCTGCCGTGGGCTGCAGCGTACCTCC  
AGGGAGCTCGTGCAGCTCAGGAGCCTCGTCAACCTATCGAACCTATCGGGCCCTGAT  
AAGCGCTGGTACGCTGCACTGCCCTCGCTGAGTACACGGTACCCAGCTGCG  
GCCAACGCCACTTACTCCGTCTGTGTCATGCCCTTGGGGCCGGGGCTGCCGGAGGGCG  
AGGAGGCTGCCGGAGGCCATACACCCCGAGCGTCCACTCCAACCACGCCAGTCACC  
CAGGCCCGAGGGCAACCTGCCCTCCATTGCCCGCCCTGGCGGGTGTCTCTGG  
CGCGCTGGCTGCCGGTGGGGCAGCCTACTGTGTCAGGCCGGGGGGCATGGCAGCAGCG  
CTCAGGACAAAGGGCAGGTGGGGCAGGGCTGGGCCACTGGGCTGGGCTGGAACTGGAGGGAGTGAAGGTC  
CCCTTGGAGGCCAGGCCGAAGGCAACAGAGGGGGTGGAGAGGCCCTGCCAGCGGGTCTGA  
GTGTGAGGTGCCACTATGGCTTCCAGGGCTGGCTCCAGTCACCCCTCACGCAAAGC  
CCTACATTAAGCCAGAGAGAGACAGGGCAGCTGGGCCGGCTCTCAGCCAGTGAGATGGC  
CAGCCCCCTCTGCTGCCACACCACGTAAGTCTCAGTCCAAACCTCGGGATGTGCGAGA  
CAGGGCTGTGACCAACAGCTGGGCCCTGTTCCCTCTGGACCTCGGTCTCCTCATCTGTGAG  
ATGCTGTGGCCCAGCTGACGAGGCCAACGTCAGTCCCTGGGACGGGGCCCTGCCATGTGCTGGTAAC  
CCGCCCTGCCCTCCGAACGTGCAGTCCCTGGGACGGGGCCCTGCCATGTGCTGGTAAC  
GCATGCCCTGGGCCCTGCTGGCTCTCCACTCCAGGGGACCCCTGGGGCCAGTGAAGGAAG  
CTCCCGAAAGAGCAGAGGGAGAGCAGGGTAGGGCTGTGACTCTAGTCTTGGCCCCAGG  
AAGCGAAGGAACAAAAGAAACTGGAAAGGAAGATGCTTAGGAACATGTTTGCTTTAA  
AATATATATATATTATAAGAGATCCTTCCATTATTCTGGGAAGATGTTTTCAAAC  
AGAGACAAGGACTTGGTTTGTAAGACAAACGATGATATGAAGGCCTTGTAAAGAAAAA  
ATAAAAAAAAAAA

## **FIGURE 26**

-c /usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA44804

subunit 1 of 1, 598 aa, 1 stop

MW: 63030, PI: 7.24, NX(S/T): 3

MCSRVPLLLPLLLLALGPGVQGCPSCQCSQPQTVFCTARQGTTVPRDVPPDTVGLYFEN  
GITMLDASSFAGLPGLQLLDLSQNQIASLRLPRLLLLLDSHNSLLEPGILDNTANVEALRL  
AGLGLQLDEGLFSRLRNLHLDLVDSDNQLERVPPVIRGLRGLTRLRLAGNTRIAQLRPEDLA  
GLAALQELDVSNLSQLALPGDLSGLFPRLRLAAARNPFCNCVCPLSWFGPWVRESHVTLASP  
EETRCHFPPKNAGRLLLLEDYADFGCPATTTATVPTTRPVVREPTALSSSLAPTWLSPTAP  
ATEAPSPPSTAPPTVGPVPQPQDCPPSTCLNGGTCHLGRHHLACLCPEGFTGLYCESQMGQ  
GTRPSPTPVTPRPPRSLTGIEPVSPTSLRVGLQRYLQGSSVQLRSRLTYRNLSGPDKRLV  
TLRLPASLAEYVTQLRPNATYSVCVMPGLPGRVPEGEEACGEAHTPPAVHSNHAPVTQARE  
GNLPLLIAPALAAVLLAALAAVGAAYCVRGRAMAAAAQDKGQVGPAGPLEGVKVPLEP  
GPKATEGGGEALPSGSECEVPLMGFPGPGLQSPLHAKPYI

### Signal sequence.

## amino acids 1-23

### Transmembrane domain.

amino acids 501-522

### N-glycosylation sites.

amino acids 198-202

### Thymidine kinase phospho-

luciferase 262-270

## ANSWER

N-methylscoyrafactin

amino acids 25-29, 31-34, 36-39, 41-44, 46-49, 51-54, 56-59, 61-64, 66-69, 71-74, 76-79, 81-84, 86-89, 91-94, 96-99, 101-104, 106-109, 111-114, 116-119, 121-124, 126-129, 131-134, 136-139, 141-144, 146-149, 151-154, 156-159, 161-164, 166-169, 171-174, 176-179, 181-184, 186-189, 191-194, 196-199, 201-204, 206-209, 211-214, 216-219, 221-224, 226-229, 231-234, 236-239, 241-244, 246-249, 251-254, 256-259, 261-264, 266-269, 271-274, 276-279, 281-284, 286-289, 291-294, 296-299, 301-304, 306-309, 311-314, 316-319, 321-324, 326-329, 331-334, 336-339, 341-344, 346-349, 351-354, 356-359, 361-364, 366-369, 371-374, 376-379, 381-384, 386-389, 391-394, 396-399, 401-404, 406-409, 411-414, 416-419, 421-424, 426-429, 431-434, 436-439, 441-444, 446-449, 451-454, 456-459, 461-464, 466-469, 471-474, 476-479, 481-484, 486-489, 491-494, 496-499, 501-504, 506-509, 511-514, 516-519, 521-524, 526-529, 531-534, 536-539, 541-544, 546-549, 551-554, 556-559, 561-564, 566-569, 571-574, 576-579, 581-584, 586-589, 591-594, 596-599, 601-604, 606-609, 611-614, 616-619, 621-624, 626-629, 631-634, 636-639, 641-644, 646-649, 651-654, 656-659, 661-664, 666-669, 671-674, 676-679, 681-684, 686-689, 691-694, 696-699, 701-704, 706-709, 711-714, 716-719, 721-724, 726-729, 731-734, 736-739, 741-744, 746-749, 751-754, 756-759, 761-764, 766-769, 771-774, 776-779, 781-784, 786-789, 791-794, 796-799, 801-804, 806-809, 811-814, 816-819, 821-824, 826-829, 831-834, 836-839, 841-844, 846-849, 851-854, 856-859, 861-864, 866-869, 871-874, 876-879, 881-884, 886-889, 891-894, 896-899, 901-904, 906-909, 911-914, 916-919, 921-924, 926-929, 931-934, 936-939, 941-944, 946-949, 951-954, 956-959, 961-964, 966-969, 971-974, 976-979, 981-984, 986-989, 991-994, 996-999, 1001-1004, 1006-1009, 1011-1014, 1016-1019, 1021-1024, 1026-1029, 1031-1034, 1036-1039, 1041-1044, 1046-1049, 1051-1054, 1056-1059, 1061-1064, 1066-1069, 1071-1074, 1076-1079, 1081-1084, 1086-1089, 1091-1094, 1096-1099, 1101-1104, 1106-1109, 1111-1114, 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2026-2029, 2031-2034, 2036-2039, 2041-2044, 2046-2049, 2051-2054, 2056-2059, 2061-2064, 2066-2069, 2071-2074, 2076-2079, 2081-2084, 2086-2089, 2091-2094, 2096-2099, 2101-2104, 2106-2109, 2111-2114, 2116-2119, 2121-2124, 2126-2129, 2131-2134, 2136-2139, 2141-2144, 2146-2149, 2151-2154, 2156-2159, 2161-2164, 2166-2169, 2171-2174, 2176-2179, 2181-2184, 2186-2189, 2191-2194, 2196-2199, 2201-2204, 2206-2209, 2211-2214, 2216-2219, 2221-2224, 2226-2229, 2231-2234, 2236-2239, 2241-2244, 2246-2249, 2251-2254, 2256-2259, 2261-2264, 2266-2269, 2271-2274, 2276-2279, 2281-2284, 2286-2289, 2291-2294, 2296-2299, 2301-2304, 2306-2309, 2311-2314, 2316-2319, 2321-2324, 2326-2329, 2331-2334, 2336-2339, 2341-2344, 2346-2349, 2351-2354, 2356-2359, 2361-2364, 2366-2369, 2371-2374, 2376-2379, 2381-2384, 2386-2389, 2391-2394, 2396-2399, 2401-2404, 2406-2409, 2411-2414, 2416-2419, 2421-2424, 2426-2429, 2431-2434, 2436-2439, 2441-2444, 2446-2449, 2451-2454, 2456-2459, 2461-2464, 2466-2469, 2471-2474, 2476-2479, 2481-2484, 2486-2489, 2491-2494, 2496-2499, 2501-2504, 2506-2509, 2511-2514, 2516-2519, 2521-2524, 2526-2529, 2531-2534, 2536-2539, 2541-2544, 2546-2549, 2551-2554, 2556-2559, 2561-2564, 2566-2569, 2571-2574, 2576-2579, 2581-2584, 2586-2589, 2591-2594, 2596-2599, 2601-2604, 2606-2609, 2611-2614, 2616-2619, 2621-2624, 2626-2629, 2631-2634, 2636-2639, 2641-2644, 2646-2649, 2651-2654, 2656-2659, 2661-2664, 2666-2669, 2671-2674, 2676-2679, 2681-2684, 2686-2689, 2691-2694, 2696-2699, 2701-2704, 2706-2709, 2711-2714, 2716-2719, 2721-2724, 2726-2729, 2731-2734, 2736-2739, 2741-2744, 2746-2749, 2751-2754, 2756-2759, 2761-2764, 2766-2769, 2771-2774, 2776-2779, 2781-2784, 2786-2789, 2791-2794, 2796-2799, 2801-2804, 2806-2809, 2811-2814, 2816-2819, 2821-2824, 2826-2829, 2831-2834, 2836-2839, 2841-2844, 2846-2849, 2851-2854, 2856-2859, 2861-2864, 2866-2869, 2871-2874, 2876-2879, 2881-2884, 2886-2889, 2891-2894, 2896-2899, 2901-2904, 2906-2909, 2911-2914, 2916-2919, 2921-2924, 2926-2929, 2931-2934, 2936-2939, 2941-2944, 2946-2949, 2951-2954, 2956-2959, 2961-2964, 2966-2969, 2971-2974, 2976-2979, 2981-2984, 2986-2989, 2991-2994, 2996-2999, 3001-3004, 3006-3009, 3011-3014, 3016-3019, 3021-3024, 3026-3029, 3031-3034, 3036-3039, 3041-3044, 3046-3049, 3051-3054, 3056-3059, 3061-3064, 3066-3069, 3071-3074, 3076-3079, 3081-3084, 3086-3089, 3091-3094, 3096-3099, 3101-3104, 3106-3109, 3111-3114, 3116-3119, 3121-3124, 3126-3129, 3131-3134, 3136-3139, 3141-3144, 3146-3149, 3151-3154, 3156-3159, 3161-3164, 3166-3169, 3171-3174, 3176-3179, 3181-3184, 3186-3189, 3191-3194, 3196-3199, 3201-3204, 3206-3209, 3211-3214, 3216-3219, 3221-3224, 3226-3229, 3231-3234, 3236-3239, 3241-3244, 3246-3249, 3251-3254, 3256-3259, 3261-3264, 3266-3269, 3271-3274, 3276-3279, 3281-3284, 3286-3289, 3291-3294, 3296-3299, 3301-3304, 3306-3309, 3311-3314, 3316-3319, 3321-3324, 3326-3329, 3331-3334, 3336-3339, 3341-3344, 3346-3349, 3351-3354, 3356-3359, 3361-3364, 3366-3369, 3371-3374, 3376-3379, 3381-3384, 3386-3389, 3391-3394, 3396-3399, 3401-3404, 3406-3409, 3411-3414, 3416-3419, 3421-3424, 3426-3429, 3431-3434, 3436-3439, 3441-3444, 3446-3449, 3451-3454, 3456-3459, 3461-3464, 3466-3469, 3471-3474, 3476-3479, 3481-3484, 3486-3489, 3491-3494, 3496-3499, 3501-3504, 3506-3509, 3511-3514, 3516-3519, 3521-3524, 3526-3529, 3531-3534, 3536-3539, 3541-3544, 3546-3549, 3551-3554, 3556-3559, 3561-3564, 3566-3569, 3571-3574, 3576-3579, 3581-3584, 3586-3589, 3591-3594, 3596-3599, 3601-3604, 3606-3609, 3611-3614, 3616-3619, 3621-3624, 3626-3629, 3631-3634, 3636-3639, 3641-3644, 3646-3649, 3651-3654, 3656-3659, 3661-3664, 3666-3669, 3671-3674, 3676-3679, 3681-3684, 3686-3689, 3691-3694, 3696-3699, 3701-3704, 3706-3709, 3711-3714, 3716-3719, 3721-3724, 3726-3729, 3731-3734, 3736-3739, 3741-3744, 3746-3749, 3751-3754, 3756-3759, 3761-3764, 3766-3769, 3771-3774, 3776-3779, 3781-3784, 3786-3789, 3791-3794, 3796-3799, 3801-3804, 3806-3809, 3811-3814, 3816-3819, 3821-3824, 3826-3829, 3831-3834, 3836-3839, 3841-3844, 3846-3849, 3851-3854, 3856-3859, 3861-3864, 3866-3869, 3871-3874, 3876-3879, 3881-3884, 3886-3889, 3891-3894, 3896-3899, 3901-3904, 3906-3909, 3911-3914, 3916-3919, 3921-3924, 3926-3929, 3931-3934, 3936-3939, 3941-3944, 3946-3949, 3951-3954, 3956-3959, 3961-3964, 3966-3969, 3971-3974, 3976-3979, 3981-3984, 3986-3989, 3991-3994, 3996-3999, 4001-4004, 4006-4009, 4011-4014, 4016-4019, 4021-4024, 4026-4029, 4031-4034, 4036-4039, 4041-4044, 4046-4049, 4051-4054, 4056-4059, 4061-4064, 4066-4069, 4071-4074, 4076-4079, 4081-4084, 4086-4089, 4091-4094, 4096-4099, 4101-4104, 4106-4109, 4111-4114, 4116-4119, 4121-4124, 4126-4129, 4131-4134, 4136-4139, 4141-4144, 4146-4149, 4151-4154, 4156-4159, 4161-4164, 4166-4169, 4171-4174, 4176-4179, 4181-4184, 4186-4189, 4191-4194, 4196-4199, 4201-4204, 4206-4209, 4211-4214, 4216-4219, 4221-4224, 4226-4229, 4231-4234, 4236-4239, 4241-4244, 4246-4249, 4251-4254, 4256-4259, 4261-4264, 4266-4269, 4271-4274, 4276-4279, 4281-4284, 4286-4289, 4291-4294, 4296-4299, 4301-4304, 4306-4309, 4311-4314, 4316-4319, 4321-4324, 4326-4329, 4331-4334, 4336-4339, 4341-4344, 4346-4349, 4351-4354, 4356-4359, 4361-4364, 4366-4369, 4371-4374, 4376-4379, 4381-4384, 4386-4389, 4391-4394, 4396-4399, 4401-4404, 4406-4409, 4411-4414, 4416-4419, 4421-4424, 4426-4429, 4431-4434, 4436-4439, 4441-4444, 4446-4449, 4451-4454, 4456-4459, 4461-4464, 4466-4469, 4471-4474, 4476-4479, 4481-4484, 4486-4489, 4491-4494, 4496-4499, 4501-4504, 4506-4509, 4511-4514, 4516-4519, 4521-4524, 4526-4529, 4531-4534, 4536-4539, 4541-4544, 4546-4549, 4551-4554, 4556-4559, 4561-4564, 4566-4569, 4571-4574, 4576-4579, 4581-4584, 4586-4589, 4591-4594, 4596-4599, 4601-4604, 4606-4609, 4611-4614, 4616-4619, 4621-4624, 4626-4629, 4631-4634, 4636-4639, 4641-4644, 4646-4649, 4651-4654, 4656-4659, 4661-4664, 4666-4669, 4671-4674, 4676-4679, 4681-4684, 4686-4689, 4691-4694, 4696-4699, 4701-4704, 4706-4709, 4711-4714, 4716-4719, 4721-4724, 4726-4729, 4731-4734, 4736-4739, 4741-4744, 4746-4749, 4751-4754, 4756-4759, 4761-4764, 4766-4769, 4771-4774, 4776-4779, 4781-4784, 4786-4789, 4791-4794, 4796-4799, 4801-4804, 4806-4809, 4811-4814, 4816-4819, 4821-4824, 4826-4829, 4831-4834, 4836-4839, 4841-4844, 4846-4849, 4851-4854, 4856-4859, 4861-4864, 4866-4869, 4871-4874, 4876-4879, 4881-4884, 4886-4889, 4891-4894, 4896-4899, 4901-4904, 4906-4909, 4911-4914, 4916-4919, 4921-4924, 4926-4929, 4931-4934, 4936-4939, 4941-4944, 4946-4949, 4951-4954, 4956-4959, 4961-4964, 4966-4969, 4971-4974, 4976-4979, 4981-4984, 4986-4989, 4991-4994, 4996-4999, 5001-5004, 5006-5009, 5011-5014, 5016-5019, 5021-5024, 5026-5029, 5031-5034, 5036-5039, 5041-5044, 5046-5049, 5051-5054, 5056-5059, 5061-5064, 5066-5069, 5071-5074, 5076-5079, 5081-5084, 5086-5089, 5091-5094, 5096-5099, 5101-5104, 5106-5109, 5111-5114, 5116-5119, 5121-5124, 5126-5129, 5131-5134, 5136-5139, 5141-5144, 5146-5149, 5151-5154, 5156-5159, 5161-5164, 5166-5169, 5171-5174, 5176-5179, 5181-5184, 5186-5189, 5191-5194, 5196-5199, 5201-5204, 5206-5209, 5211-5214, 5216-5219, 5221-5224, 5226-5229, 5231-5234, 5236-5239, 5241-5244, 5246-5249, 5251-5254, 5256-5259, 5261-5264, 5266-5269, 5271-5274, 5276-5279, 5281-5284, 5286-5289, 5291-5294, 5296-5299, 5301-5304, 5306-5309, 5311-5314, 5316-5319, 5321-5324, 5326-5329, 5331-5334, 5336-5339, 5341-5344, 5346-5349, 5351-5354, 5356-5359, 5361-5364, 5366-5369, 5371-5374, 5376-5379, 5381-5384, 5386-5389, 5391-5394, 5396-5399, 5401-5404, 5406-5409, 5411-5414, 5416-5419, 5421-5424, 5426-5429, 5431-5434, 5436-5439, 5441-5444, 5446-5449, 5451-5454, 5456-5459, 5461-5464, 5466-5469, 5471-5474, 5476-5479, 5481-5484, 5486-5489, 5491-5494, 5496-5499, 5501-5504, 5506-5509, 5511-5514, 5516-5519, 5521-5524, 5526-5529, 5531-5534, 5536-5539, 5541-5544, 5546-5549, 5551-5554, 5556-5559, 5561-5564, 5566-5569, 5571-5574, 5576-5579, 5581-5584, 5586-5589, 5591-5594, 5596-5599, 5601-5604, 5606-5609, 5611-5614, 5616-5619, 5621-5624, 5626-5629, 5631-5634, 5636-5639, 5641-5644, 5646-5649, 5651-5654, 5656-5659, 5661-5664, 5666-5669, 5671-5674, 5676-5679, 5681-5684, 5686-5689, 5691-5694, 5696-5699, 5701-5704, 5706-5709, 5711-5714, 5716-5719, 5721-5724, 5726-5729, 5731-5734, 5736-5739, 5741-5744, 5746-5749, 5751-5754, 5756-5759, 5761-5764, 5766-5769, 5771-5774, 5776-5779, 5781-5784, 5786-5789, 5791-5794, 5796-5799, 5801-5804, 5806-5809, 5811-5814, 5816-5819, 5821-5824, 5826-5829, 5

Prokaryotic membrane lipoprotein lipid attachment site.

amino acids 14-25

### EGF-like domain cysteine pattern signature.

amino acids 355-367

#### 1. inner pattern

Medicine 2019, 11, 194–216

## FIGURE 27

GGCACTAGGACAACCTTCTCCCTCTGCACCACTGCCGTACCCCTAACCGCCCCGCCACC  
TCCTTGCTACCCACTCTGAAACCACAGCTGTTGGCAGGGTCCCCAGCTC**ATGCCAGCCTC**  
ATCTCCTTCTTGCTAGCCCCAAAGGGCCTCCAGGCAACATGGGGGCCAGTCAGAGAGC  
CGGCACTCTCAGTTGCCCTCTGGTTGAGTTGGGGGCAGCTCTGGGGCCGTGGCTTGCC  
ATGGCTCTGCTGACCCAAACAAACAGAGCTGCAGAGCCTCAGGAGAGAGGTGAGCCGGCTGCA  
GGGGACAGGAGGCCCTCCCAGAATGGGAAGGGTATCCCTGGCAGAGTCTCCGGAGCAGA  
GTTCCGATGCCCTGGAAGCCTGGAGAATGGGAGAGATCCCGAAAAGGAGAGCAGTGCTC  
ACCCAAAAACAGAAGAAGCAGCAGTCTGTCTGCACCTGGTCCCCATTAAAGCCACCTCCAA  
GGATGACTCCGATGTGACAGAGGTGATGTGGCAACCAGCTCTAGGCGTGGAGAGGCCTAC  
AGGCCCAAGGATATGGTGTCCGAATCCAGGATGCTGGAGTTATCTGCTGTATAGCCAGGTC  
CTGTTCAAGACGTGACTTCACCATGGTCAGGTGGTCTCGAGAAGGCCAAGGAAGGCA  
GGAGACTCTATTCCGATGTATAAGAAGTATGCCCTCCCACCCGGACCAGGGCTACAACAGCT  
GCTATAGCGCAGGTGTCTCCATTACACCAAGGGATATTCTGAGTGTATAATTCCCCGG  
GCAAGGGCGAAACTAACCTCTCCACATGGAACCTCCTGGGTTGTGAAACT**GTGATT**  
GTGTTATAAAAGTGGCTCCAGCTTGGAAAGACCAGGGTGGTACATACTGGAGACAGCCAA  
GAGCTGAGTATATAAGGAGAGGAATGTGCAGGAACAGAGGCATCTCCTGGGTTGGCTC  
CCCGTTCCCTCACTTTCCCTTTCATTCCCACCCCTAGACTTGATTTACGGATATCTG  
CTTCTGTTCCCCATGGAGCTCCG

APPROVED	O.G. FIG.
	SUBCLASS
BY	CLASS
DRAFTSMAN	

FIGURE 27-2941660

## FIGURE 28

</usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA52722  
<subunit 1 of 1, 250 aa, 1 stop  
<MW: 27433, pi: 9.85, NX(S/T): 2  
MPASSPFLLAPKGPPGNMGGPVREPALSVALWLSWGAALGAVACAMALLTQQTELQLRREV  
SRLQGTGGPSQNGEYPWQSLPEQSSDALEAWENGERSRKRAVLTQKQKKQHSQLHLVPIN  
ATSKDDSDVTEVMWQPALRRGRGLQAQGYGVRIQDAGVYLLYSQVLFQDVTFTMGQVVSREG  
QGRQETLFRCIRSMPSHPDRAYNSCYSAGVFHLHQGDILSVIIPRARAKLNLSPHGTFLGFVKL

**Signal sequence.**

amino acids 1-40

**N-glycosylation site.**

amino acids 124-128

**Tyrosine kinase phosphorylation site.**

amino acids 156-164

**N-myristoylation site.**

amino acids 36-42, 40-46, 179-185, 242-248

**Prokaryotic membrane lipoprotein lipid attachment site.**

amino acids 34-45

10/16/00 2003-09-11 16:56:00

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	
DRAFTSMAN	

## FIGURE 29

O. G. FIG.	CLASS
APPROVED	BY
DRAFTSMAN	

1075-90-0000000000

CACTTTCTCCCTCTTCCTTACTTCGAGAAACCGCGCTTCGCTTCTGGTCGCAGAGAC  
CTCGGAGACCGCGCCGGGAGACGGAGGTGCTGTGGGTGGGGGACCTGTGGCTGCTCGTA  
CCGCCCCCCCACCCCTCTGCACGTGCCGTCCCGAAGACCTTTCCCCTGCTCTGTT  
TCCTTCACCGAGTCTGTGCATGCCCGGACCTGGCCGGAGGAGGCTGGCCGGGGAGA  
TGCTCTAGGGCGCGCGGGAGGAGCGGCCGGACGGAGGGCCGGAGGAAGAAGATGGC  
TCCCCTGGACAGGGACTCTGCTGGCGTACTGCCTGCTCCTTGCCTCTGGCTGTT  
CCTGAGTCGTGTGCCCATGTCCAGGGGAACAGCAGGAGTGGGAGGGACTGAGGAGCTGC  
CGTCGCCTCCGGACCATGCCGAGAGGGCTGAAGAACAAACATGAAAAATACAGGCCAGTCAG  
GACCAGGGCTCCCTGCTTCCCCTGGCTGCCGTGCGCTGCTGTGACCCGGTACCTCCATGTACCC  
GGCGACCGCCGTGCCCAAGATCAACATCACTATCTGAAAGGGAGAAGGGTGACCGCGGAG  
ATCGAGGCCTCCAAGGGAAATATGGCAAAACAGGCTCAGCAGGGCCAGGGCCACACTGGA  
CCCAAAGGGCAGAAGGGCTCCATGGGGCCCTGGGAGCGGTGCAAGAGCCACTACGCCGC  
CTTTCTGGTGGGCCGGAAAGAACCCATGCACAGCAACCAACTACCAAGACGGTGTACTTCG  
ACACGGAGTCGTGAACCTCTACGACCACTCAACATGTTCACCGGCAAGTCTACTGCTAC  
GTGCCCGGCTCTACTTCTCAGCCTAACGTGCACACCTGGAACCAGAAGGAGACCTACCT  
GCACATCATGAAGAACGAGGAGGAGGTGGTGTACTTGTGCGCAGGTGGGAGCCAGCA  
TCATGCAAAGCCAGAGCCTGATGCTGGAGCTGCGAGAGCAGGACCAGGTGTGGTACGCC  
TACAAGGGCAGACGTGAGAACGCCATCTCAGCGAGGAGCTGGACACCTACATCACCTCAG  
TGGCTACCTGGTCAAGCACGCCACCGAGCCTAGCTGGCCGGCACCTCCTCTCGCC  
ACCTTCACCCCTGCGCTGTGCTGACCCACCGCCTTCCCCGATCCCTGGACTCCGACTC  
CCTGGCTTGGCATTCACTGAGACGCCCTGCACACACAGAAAGCCAAGCGATCGGTGCTCC  
CAGATCCCGCAGCCTCTGGAGAGAGCTGACGGCAGATGAAATCACCAGGGCGGGCACCGC  
GAGAACCTCTGGGACCTTCCGCGGCCCTCTGCACACATCCTCAAGTGACCCGCACGGC  
GAGACGGGTGGCGCAGGGCTCCCAGGGTGCAGCAGGCTCCAGTCCTGGAAATA  
ATTAGGCAAATTCTAAAGGTCTCAAAGGAGCAAAGTAAACCGTGGAGGACAAAGAAAAGGG  
TTGTTATTTGTCTTCCAGCCAGCCTGCTGGCTCCAAAGAGAGAGGGCTTTCAGTGAG  
ACTCTGCTTAAGAGAACATCCAAAGTAAAGCTCTGGGTCAAGGGAGGGCCGGGGCAGG  
AAACTACCTCTGGCTTAATTCTTTAAGCCACGTAGGAACCTTCTTGAGGGATAGGTGGACC  
CTGACATCCCTGTGGCCTTGCCCAAGGGCTTGCTGGCTTCTGAGTCACAGCTGCGAGGT  
GATGGGGCTGGGCCAGGGCTCAGCCTCCCAGAGGGACAGCTGAGCCCCCTGCCTGGC  
TCCAGGTTGGTAGAACAGCCGAAGGGCTCCTGACAGTGGCCAGGGACCCCTGGTCCCCA  
GGCCTGCAGATTTCTATGAGGGCAGAGCTCCTGGTACATCCATGTGTGGCTCTGCTCC  
ACCCCTGTGCCACCCCAGAGCCCTGGGGGTGGTCTCCATGCCTGCCACCCCTGGCATCGGCT  
TTCTGTGCCCTCCCACACAAATCAGCCCCAGAAGGCCCGGGCTTGGCTCTGTGTTTT  
TATAAAACACCTCAAGCAGCACTGCAGTCTCCATCTCCTCGTGGCTTAAGCATCACCCTT  
CCACGTGTGGTGTGGCAGCAAGGCTGATCCAGACCCCTCTGCCCTACTGCCCT  
CATCCAGGCCTCTGACCAGTAGCCTGAGAGGGCTTTCTAGGCTCAGAGCAGGGAGAG  
CTGGAAGGGCTAGAAAGCTCCGCTTGTCTGTTCTCAGGCTCTGTGAGCCTCAGTCCTG  
AGACCAGAGTCAGAGGAAGTACACGTCCAATCACCGTGTCAAGGATTCACTCTCAGGAGC  
TGGGTGGCAGGAGAGGCAATAGCCCTGTGGCAATTGCAGGACCAAGCTGGAGCAGGGTTGCG  
GTGTCTCCACGGTGTCTGCCCTGCCATGCCACCCAGACTCTGATCTGCTACCCGCTGGCC  
ATAGCCCTCTCCACCTCACCCATGTTGATGCCAGGGTCACTCTGCTACCCGCTGGCC  
CCCAAACCCCGCTGCCTCTCTCCCTCCCCCAGACTCTGATCTGCTACCCGCTGGCC  
TTCCCTCTGGCCTGGCTGCCGGATCTGGGGCTCTAACGTCCCTCTCTTAAAGAAACTT  
CTGCGGGTCAAGACTCTGAAGCCGAGTTGCTGTGGCGTGCCCGAAGCAGAGGCCACACTC  
GCTGCTTAAGCTCCCCAGCTTTCCAGAAAACATTAAACTCAGAATTGTGTTTCAA

## FIGURE 30

></usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA41234

><subunit 1 of 1, 281 aa, 1 stop

><MW: 31743, pI: 6.83, NX(S/T): 1

MGSRGQGLLLAYCLLLAFASGLVLSRVPHVQGEQQEWEGTEELSPPDHAERAEEQHEKYRP  
SQDQGLPASRCLRCCDPGTSMYPATAVPQINITILKGEKGDRGDRGLQGKYGKTGSAGARGH  
TGPKGQKGSMGAPGERCKSHYAAFSGRKKPMHSNYYQTVIFDTEFVNLYDHFNMFTGKFY  
CYVPGLYFFSLNVHTWNQKETYLHIMKNEEEVVILFAQVGDRSIMQSOSLMLELREQDQVWV  
RLYKGERENAIFSEELDTYITFSGYLVKHATEP

APPROVED	O.G. FIG.	SUBCLASS
BY	CLASS	
		DRAFTSMAN

**Signal sequence.**

amino acids 1-25

**N-glycosylation site.**

amino acids 93-97

**N-myristoylation sites.**

amino acids 7-13, 21-27, 67-73, 117-123, 129-135

**Amidation site.**

amino acids 150-154

**Cell attachment sequence.**

amino acids 104-107

FIGURE 30 200414660

## FIGURE 31

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	
DRAFTSMAN	

1073810-239411650

GGGGAGCATCCGCTCGGGCCTCGCCGAGACCCCCGCGCGGATCGCCGGTCTTCCCGCG  
GCGCAGACAGAGCTGTCCTCGCACCTGGATGGCAGCAGGGCGCCGGGTCTCGACGCCA  
GAGAGAAATCTCATCATCTGTGCAGCCTTCTAAAGCAAACATAAGACCAAGGGAGGATTAT  
CCTGACCTTGAAGACCAAAACTAAACTGAATTTAAATGTTCTCGGGGGAGAAGGGAG  
CTTGACTTACACTTGGTAATAATTGCTTCTGACACTAAGGCTGTCTGCTAGTCAGAATT  
GCCTCAAAAAGAGTCTAGAAGATGTTGACATCCAGTCATCTCTTCTAAGGAAATC  
AGAGGCAATGAGCCGTATATACTCAACTCAAGAAGACTGCATTAATTCTGCTGTTAAC  
AAAAACATATCAGGGACAAAGCATGTAACCTGATGATCTCGACACTCGAAAAACAGCTA  
GACAACCCAACTGCTACCTATTTCTGTCCAACGAGGAAGCCTGTCATTGAAACCAGCA  
AAAGGACTTATGAGTTACAGGATAATTACAGATTTCCATCTTGACCAGAAATTGCCAAG  
CCAAGAGTTACCCAGGAAGATTCTCTTACATGCCAATTTCACAAGCAGTCACTCCCC  
TAGCCCACATCACACAGATTATTCAAAGCCACCGATATCTCATGGAGAGACACACTTCT  
CAGAAGTTGGATCCTCAGATCACCTGGAGAAACTATTAAAGATGGATGAAGCAAGTGCCA  
GCTCCTGCTTATAAGGAAAAGGCCATTCTCAGAGTTACAATTTCCTCTGATCAAGAAA  
TAGCTCATCTGCTGCCTGAAATGTGAGTGCCTCCAGCTACGGTGGCAGTTGCTTCTCCA  
CATACCACCTCGGCTACTCCAAAGCCGCCACCTTCTACCCACCAATGCTTCAGTGACACC  
TTCTGGACTTCCAGCCACAGCTGCCACCACAGCTCCACCTGTAACCACTGTCACCTCTC  
AGCCTCCACGACCCCTATTCTACAGTTTACACGGGCTGCGGCTACACTCCAAGCAATG  
GCTACAACAGCAGTTCTGACTACCCACCTTCAGGCACCTACGGACTCGAAAGGAGCTTAGA  
AACCATAACGTTTACAGAAATCTCAAACTTAACATTGAACACAGGAATGTGATAACCTTA  
CTGCACTTCTATGTCAAATGTGGAGTCTCCACTATGAATAAAACTGCTTCTGGGAAGGT  
AGGGAGGCCAGTCCAGGCAGTTCTCCAGGGCAGTGTCCAGAAAATCAGTACGGCCTTCC  
ATTGAAAAATGGCTTCTATGGGTCCCTGCTTTGGTGTCTGTGATAGGCC  
TCGTCCTCCTGGTAGAACCTTCGGAATCACTCCGAGGAAACGTTACTCAAGACTGGAT  
TATTGATCAATGGATCTATGGACATCTAAGGATGGAACTCGGTGTCTTAATTCTT  
TAGTAACCAGAAGCCAAATGCAATGAGTTCTGCTGACTTGCTAGTCTAGCAGGAGGTTG  
TATTGAAAGACAGGAAATGCCCTCTGCTTTCTTTTTGGAGACAGAGTCTT  
GCTCTGTTGCCAGGCTGGAGTGCAGTAGCACGATCTGGCTCTCACCGAACCTCGTCTC  
CTGGGTTCAAGCGATTCTCCTGCTCAGCCTCTAAGTATCTGGATTACAGGCATGTGCCA  
CCACACCTGGGTGATTTGTATTTAGTAGAGACGGGTTTACCATGTTGGTCAGGCTG  
GTCTCAAACCTGACCTAGTGATCCACCCCTCTGGCTCCAAAGTGTGGATTACAGG  
CATGAGCCACACAGCTGGCCCTCTGTTATGTTGGTTTGAGAAGGAATGAAGTG  
GGAACCAAATTAGGTAATTGGTAATCTGCTCTAAATATTAGCTAAAACAAAGCTCT  
ATGTAAGTAATAAAAGTATAATTGCCATATAATTCAAATTCAGTCACATTCTGGTCCAGA  
GAAACAGGTTAGGACATCTAGGTTCCAATTCACTTCAGTGTGTTTATGGATTCTTAAACTTATT  
TGTTATATCAATTCTAATGGATTGCTTTCTTTATGGATTCTTAAACTTATT  
CCAGATGTAGTCCTCCAATTAAATATTGAATAATCTTGTACTCAA

## FIGURE 32

O.G. FIG.	SUBCLASS
CLASS	
APPROVED BY DRAFTSMAN	

```
></usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA45410
><subunit 1 of 1, 431 aa, 1 stop
><MW: 46810, pI: 6.45, NX(S/T): 6
MFFGGEGLTYTLVIICFLRLSASQNCLKKSLEDVVIDIQSSLSKGIRGNEPVYTSTQED
CINSCCSTKNISGDKACNLMIFDTRKTARQPNCLFPCNNEACPLKPAKGLMSYRIITDFP
SLTRNLPSQELPQEDSLLHGQFSQAVTPLAHHTDYSKPTDISWRDTLSQKFGSSDHLEKLF
KMDEASAQLLAYKEKGHSQSSQFSSDQEIAHLLPENVSALPATVAVASPHTTSATPKPATLL
PTNASVTPSGTSQPQLATTAPPVTTVTSQPPTTLISTVFTRAATLQAMATTAVLTTTFQAP
TDSKGSLETIPFTEISNLTLNTGNVYNPTALSMSNVESSTMNKASWEGREASPGSSSQGSV
PENQYGLPFEKWLIGSLLFGVLFLVIGLVLLGRILSESLRRKRYSRLDYLINGIYVDI
```

Signal sequence.

amino acids 1-25

Transmembrane domain.

amino acids 384-405

N-glycosylation sites.

amino acids 72-76, 222-226, 251-255, 327-331, 352-356

cAMP- and cGMP-dependent protein kinase phosphorylation site.

amino acids 415-419

Tyrosine kinase phosphorylation site.

amino acids 50-57

N-myristoylation sites.

amino acids 4-10, 48-54, 315-321

## FIGURE 33

APPROVED	O.G. FIG.	SUBCLASS
	CLASS	
BY		
DRAFTSMAN		

GGGGCACCTGGAAG**ATG**CGCCCATTGGCTGGTGGCCTGCTCAAGGTGGTTCGTGGCTTC  
GCCTCCTTGTGTGCCTGGTATTGGGTACCTGCTCGAGAGCTCATTCCAGATGCACCCCT  
GTCCAGTGCCTAGCATCCGCAGCATCGGGAGAGGCCTGCCTCAAAGCTCCAGTC  
CCAAAAGGCAAAATGTGACCACTGGA**CT**CCCTGCCATCTGACACCTATGCCTACAGGTTA  
CTCAGCGGAGGTGGCAGAAGCAAGTACGCCAAAATCTGCTTGAGGATAACCTACTTATGGG  
AGAACAGCTGGAAATGTTGCCAGAGGAATAAACATTGCCATTGTCAACTATGTA**ACT**GGGA  
ATGTGACAGCAACACGATGTTGATATGTATGAAGGCGATAACTCTGGACCGATGACAAAG  
TTTATTCAAGTGCTGCCAAAATCCCTGCTTGCATGGTACCTATGACGACGGAAGCAC  
AAGACTGAATAACGATGCCAAGAACATGCCATAGAAC**CT**GGAA**GT**AAAGAAATCAGGAACA  
TGAAATTCAAGGCTAGCTGGTATTATTGCAGCAAAAGGCTGGAA**CT**CCCTCCGAAATT  
CAGAGAGAAAAGATCAACCACTCTGATGCTAAGAACACAGATATTCTGGCTGGCCTGCAGA  
GATCCAGATAGAAGGCTGCATACCCAAAGAACGAA**GT**AC**CT**GCAGGGCCTGAGTAAAT  
GTGTTCTGTATAAACAAATGCAGCTGGAA**CT**GC**CT**CAAGAAC**AT**CTTATTCTAA**AT**CCAACA  
GCCCATTTGATGAGTATTTGGGTTGTAAACCAATGAACATTGCTAGTTGTATCA  
AATCTGGTACGCAGTATTTATACCA**GT**ATTTATGTA**GT**GAAGATGTCAATTAGCAGGA  
AACTAAAATGAATGGAAATTCTTAAAAAAA

TYPE 30 " 23344660

## FIGURE 34

></usr/seqdb2/sst/DNA/Dnaseqs.min/ss.DNA46777  
><subunit 1 of 1, 235 aa, 1 stop  
><MW: 25982, pi: 9.09, NX(S/T): 2  
MRPLAGGLKVVFVVFASLCAWYSGYLLAELIPDAPLSSAAYSIRSIGERPVLKAPVPKRQK  
CDHWTPCPSDTYAYRLLSGGGRSKYAKICFEDNLLMGEQLGNARGINIAIVNYVTGNVTAT  
RCFDMDYEGDNGPMTKFIQSAAPKSLLFMVTYDDGSTRLNNDAKNAIEALGSKEIRNMKFRS  
SWVFIAAKGLELPSEIQREKINHSDAKNNRYSGWPAEIQIEGCCIPKERS

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	
DRAFTSMAN	

signal sequence.

amino acids 1-20

N-glycosylation sites.

amino acids 120-124, 208-212

Glycosaminoglycan attachment site.

amino acids 80-84

N-myristylation sites.

amino acids 81-87, 108-114, 119-125

TOP SECRET - 298441660